



## FEDERAL OPERATING PERMIT

Permit No.: **100005**

Company: **CEMEX Construction Materials Pacific, LLC**

Facility: **CEMEX River Plant and Mountain Quarry Plant**

Issue date: **TBD**

Expiration date: **TBD**

**MOJAVE DESERT  
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Signed and issued by

**BRAD POIRIEZ**

*EXECUTIVE DIRECTOR/*

*AIR POLLUTION CONTROL OFFICER*

# PERMIT REVISIONS

## **November 21, 2024: Significant Permit Modification, Administrative Revisions, and Federal Operating Permit Renewal (by Daniel Concho, AQE I):**

Administrative updates to conditions of permits for consistency and to reflect regulatory citations. Modifications to increase the Refused Derived Fuel hourly throughput limit condition for Kilns Q2 and Q3 at the quarry plant, the decommissioning of one belt conveyor and two belt vibrating screens to be replaced by two vibrating screens, the permitting of a new Limestone Feed System and additional cementitious material blending and load-out capabilities at the River Plant, the permitting of a new bucket elevator and air slide system over existing cement silos Group 3 resulting in increased capacity capability and improved cement loading at CEMEX – River Plant, and the reduction of allowable throughput from the non-retail above ground gasoline dispensing tank at CEMEX – River Plant.

## **November 2, 2020: Significant Permit Modification (by Alan J. De Salvio):**

Expanded alternative and supplemental fuels and added contingent requirements to supplemental fuel use (including 40 CFR 241) for both Kiln Q2 (B005362) and Kiln Q3 (B001083). Please refer to the Preliminary Decision Documents (Statement of Basis) dated November 3, 2020 for complete details. Updated Part II Rule 1161 language to the current (and more stringent) SIP submitted version.

## **August 05, 2020: Significant Permit Modification (by: Guy Smith, AQE II):**

Increased allowed hours of operation from 460 hours per year to 8,760 hours per year to the two portable air compressors described in District Permits B013522 and B013523 and corrected their USEPA Family Names and emission factors.

Additionally, the Site Contact info and SIP Table (Appendix D) have been updated.

This permitting action affects Sections I and III and Appendix D of this permit.

## **July 15, 2019: Significant Permit Modification (by: Samuel J Oktay, PE):**

Added New District Permits E013353, B013522, and B013523 to this Title V Permit; these new permits include an Emergency Firewater Pump and two new Diesel Fired Portable Air Compressors.

The addition of these new permit items affects Sections I and III of this permit.

## **January 22, 2018: Minor Permit Modification (by: Samuel J Oktay, PE):**

District Permits B001083 (Kiln 2), B005362 (Kiln 3), C001090 (Kiln 2 Baghouse), and C001091 (Kiln Q2 Clinker Cooler Baghouse). Removal of the requirement for a Continuous Opacity Monitoring System (COMS) by subsuming the District Rule 401 opacity requirements with the requirement for a Continuous Parametric Monitoring System (CPMS) system. This proposal is a streamlining demonstration of monitoring requirements and includes no physical or operational changes, nor any emission changes, as a result of this modification. Modify Conditions in Section III appropriately. See Preliminary Determination/SLFB. Minor equipment description were also incorporated concurrently and are considered Administrative changes to section III of this FOP; MDAQMD permits affected are: C000005, C000006, C000092, C000094, C001277, C001278, C001297, C001298, C001300,

C001301, C001302, C001303, C001308, C001660, C001670, C003249, C004870, C004871, C007358, C008821, C008822, C008823, C008824, C010577, C010578, C010579, and C010581.

**January 25, 2017; Administrative Permit Renewal and Minor Permit Modification (by: Samuel J Oktay, PE):**

Revised Rule 1113 references; all Rule SIP History and Status moved to Appendix D; revised permit conditions and descriptions for all IC Engines to include RICE NESHAP 40 CFR Part 63 Subpart ZZZZ requirements. Added Permit Revision Summary, Page 2; added Rule 1211 Requirements regarding GHG emissions to Page II-21. Deleted references to Emergency ICE Generators permit numbers E009246 & E009247 throughout Title V; added replacement Tier IV interim Emergency ICE Generators E012225 & E012226 where applicable in Title V Permit.

Permit changed to incorporate updated NESHAP Subpart LLL and 40 CFR 64 CAM requirements. Alternative Fuels Equipment was added. Equipment which is no longer in operation has been removed, and the following District Permitted Equipment has been added to this Title V Permit: B010327, B011678, B011939, B012195, B012253, C001091, C011940, C011941, C012194, C012196, C012650, C012651, E009245, E012225, E012226, T011937, T012193, T012252.

**January 26, 2011 Administrative Permit Amendment and Modifications:**

The following permits amendment and/or modified with no net emission changes:

Part III - Roll Press No 1- B007336 update equipment description and permit conditions

Part III - Roll Press No 2 - B007364 update equipment description and permit conditions

Baghouses - Change condition #1 from "Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF" to read "Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF: This equipment does not currently require regularly scheduled emissions testing, however emissions compliance testing may be required at the discretion of the District."

Part III -C001277, C001278, C001276, C001281, C001282, C001283, C001284, C001911, C001684, C001481, C001485, C001483.

**December 15, 2010 Administrative Permit Amendment:**

Equipment B008566 relocated to control process previously controlled by C005194. C005194 to remain on-site for future use. No net emission change associated with amendments.

Revised Part 1 (B) with equipment description changes.

Part III (41) (condition 1)

Part III (43) updated description and conditions

Part III (68) updated description and conditions

**August 18, 2010 Administrative Modification:**

Permit changed to allow the use of pistachio and almond shells as supplemental fuel alternatives.

District Permit affected: B005362; No Change expected to emissions; limits as permit conditions remain unchanged. Name of Company changed to CEMEX Construction Materials Pacific LLC (Sam

Oktay)

**March 15, 2010 Administrative Modification:**

Change of ownership from CEMEX California Cement LLC to CEMEX Construction Materials L.P. - no change to addresses or responsible official. Clarified frequency of compliance tests for C001670, C008821, C008822, C008823, C008894 - no change to monitoring or recordkeeping requirements.

**May 14, 2009 Minor Modification:**

Modifying kiln permits B001083 and B005362 and adding permit T010576 to comply with USEPA/CEMEX consent decree ED CV 07-00223-GW (JCRx). Updating the coal classifier on Coal Mill 1 (B001083) to high efficiency classifier. Updating permit C000094 to current baghouse condition standards, adding a separate permit for previously jointly permitted (single stack, multiple baghouse) baghouse C010581, adding a separate explicit permit for previously referenced coal bins T007357 and T010582, and explicitly permitting three existing small dust collectors C010577, C010578 and C010579. No change in emissions beyond criteria reductions mandated by consent decree. (Alan De Salvio)

**March 17, 2009 Renewal of Title V Permit:**

Update and renew Title V Permit after concurrent 30-day public notice and 45-day EPA review periods, Reissue date March 17, 2009. (Bill Weese)

**August 12, 2008 Administrative Modification:**

Kilns Q2 (B001083) and Q3 (B005362) are modified to include biosolids Material to the allowed supplemental fuel list. (Alan De Salvio)

**May 12, 2008 Administrative Modification:**

Change responsible official & contact persons, from letter dated May 12, 2008. (Bill Weese)

**February 2008 Administrative Modification:**

Permit # C002081 and C002082 are modified to eliminate the brand name of the chemical dust suppression used in the two systems. (Alan De Salvio)

**May 12, 2008 Administrative Modification:**

Change responsible official & contact persons, from letter dated May 12, 2008. (Bill Weese)

**July 9, 2007 Administrative Modification:**

Kilns Q2 (B001083) and Q3 (B005362) are modified to add wood chips to the allowed supplemental fuel list, with associated changes to recordkeeping requirements. Part III revised to reflect permit condition revisions. (Alan De Salvio)

**November 6, 2006 Administrative Modification:**

Title V revised to incorporate District Permit conditions, for permit B007709, allowing for temporary and controlled outside clinker storage. (Samuel Oktay)

**March 14, 2006 Administrative Modification:**

Title V revised to add district permit E009399, and remove inactive permit E004732.  
Part II and Part V revised to incorporate most recent boilerplate Title V language.

**November 08, 2005 Administrative Modification:**

The Title V Permit Effective Dates were changed back to the original issue dates.  
The date was incorrectly changed from March 17, 2004 through March 17, 2009 to March 11, 2004 to March 11, 2009. This correction reverts back to the correct period as originally issued March 17, 2004. (Bill Weese)

**July 13, 2005 Administrative Modification:**

Minor description and condition changes resulting from completion of new clinker storage and handling systems construction (necessary for compliance with the Portland Cement Kiln NESHAP) on the following permits: B000085, B007709, C001297, C001303, C001670, C004870, C004871, C008821, C008822, C008823, C008824

**August 25, 2004 Administrative Modification:**

Modification of permit status (from Authority to Construct to Permit to Operate) following completion of construction and satisfaction of all construction-related conditions, and minor language clarifications resulting from permit inspection for the following permits: C007358, C007360, C007361, C007362, C007363, C007364, C007365, C007366, C007367, T007339, T007357

**August 18, 2004 Administrative Modification:**

Modification of the group I lime and cement silo system to idle four silos and alter the ducting of the existing baghouses to dedicate one to each remaining active silo. Administrative changes were made to T002049, C008246 and C008247. The applicable portions of Part III were changed to reflect these changes - in total; the changes resulted in no net increase in the emissions of the facility.

**May 19, 2004 Administrative Modification:**

Modification of limestone crushing line permits to change the nature of dust suppression and add additional baghouses (necessary for compliance with the Portland Cement Kiln NESHAP). Administrative changes were made to B000081, C002081, C002082, B001666, and B000080, and new baghouses were added with C008894, and C008895. Affected permits were updated to directly reference NSPS Subpart OOO. The applicable portions of Part III were changed to reflect these changes - in total; the changes reduced the emissions of the facility.

**May 17, 2004 Administrative Modification:**

Revised Title Page to reference page 2 for permit modification summaries.  
Inserted new page 2 and added detailed summaries for Title 5 changes.  
Changes to this facility were necessary for compliance with the Portland Cement Kiln NESHAP. In particular, clinker handling was be modified to incorporate a clinker storage structure to reduce clinker

handling-related emissions. Administrative changes were made to B007709, C004870, C001297, C001303, B001675, C004871, C001670, and B000085 in accordance with the construction of a new clinker storage hall and related clinker handling changes (Best Available Control Technology in the form of baghouses was required; hence new baghouse permits C008821, C008222, C008223 and C008824). Affected permits were updated to the latest baghouse permit requirement standard and to directly reference NSPS Subpart LLL. The applicable portions of Part III were changed to reflect these changes - in total; the changes reduced the emissions of the facility.

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# PART I

## INTRODUCTORY INFORMATION

### ***A) FACILITY IDENTIFYING INFORMATION***

<u>Owner/Company Name:</u>	CEMEX Construction Materials Pacific LLC
<u>Owner’s Mailing Address:</u>	CEMEX Construction Materials Pacific LLC 16888 North “E” Street Victorville, California 92394-2999
<u>Facility Name:</u>	CEMEX Construction Materials Pacific LLC
<u>Facility Location(s):</u>	River Plant – Victorville Black Mountain Quarry Facility - Apple Valley
<u>MDAQMD Federal Operating Permit Number:</u>	100005
<u>MDAQMD Company Number:</u>	0001
<u>MDAQMD Facility Number:</u>	00005 and 00006
<u>Responsible Official’s Name:</u>	Luis Lopez
<u>Responsible Official’s Title:</u>	Plant Manager
<u>Responsible Official’s Phone Number:</u>	(760) 951-3471
<u>Facility “Site” Contacts:</u>	Valorie Moore
<u>Facility “Site” Contact Title:</u>	Environmental Manager
<u>Facility “Site” Contact Phone Number:</u>	(760) 381-7649 River Plant (714) 381-7629 Quarry Plant (219) 671-9387 Cell
<u>Facility’s Nature of Business:</u>	Manufacturing Clinker for Cement
<u>Facility’s SIC Code:</u>	3241 – Cement Manufacturing
<u>Facility’s Coordinates (UTM km):</u>	3831 N / 491 E

## ***B) FACILITY DESCRIPTION***

Federal Operating Permit (FOP number: 00100005) is for CEMEX Construction Materials Pacific LLC - River Plant and the Black Mountain Quarry Plant. CEMEX Construction Materials Pacific LLC - Black Mountain Quarry Facility is a Clinker Producer for Cement Manufacturing. The basic processes of the facility are the calcining of limestone, which is mixed with other raw materials. Calcining takes place in a pre-calciner and the rotary kiln. Ancillary processes are the cooling of the clinker, milling and loading for shipping to the River Plant of CEMEX in Victorville, California about 17 miles away. Once at the River Plant, other materials are added to the clinker, additional crushing is affected and the finished cement is packaged and/or dispatched in bulk containers, by rail and truck.

It should be mentioned that the River Plant and the Black Mountain Quarry Plant are considered a single source for Title V Operating Permit status. These plants are connected by, a company-owned haul road and railroad on land owned in fee, and are thus contiguous and owned by the same corporate entity.

For this Operating Permit, the entire facility is called the River & Black Mountain Quarry Facilities and will be referred to as such throughout the entire document. It is noted that the District considers this to be two separate facilities for their permitting actions on the local level.

## ***C) EQUIPMENT SUMMARY***

### CEMEX - River Plant

<b>Permit #</b>	<b>Permit Status</b>	<b>Permit Type</b>	<b>Permit Description</b>
B000004	PTO	Basic	CLINKER AND GYPSUM TRANSFER SYSTEM
B000007	PTO	Basic	CLINKER AND GYPSUM TRANSFER SYSTEM
B000009	PTO	Basic	HANDLING AND STORAGE SYSTEM
B000011	PTO	Basic	CLINKER AND GYPSUM RECLAIM SYSTEM
B000045	PTO	Basic	FINISH MILL (KFM7)
B000047	PTO	Basic	FINISH MILL (KFM8)
B000049	PTO	Basic	FINISH MILL (KE9)
B000051	PTO	Basic	FINISH MILL (KFM10)
B000053	PTO	Basic	FINISH MILL (KFM11)
B000059	PTO	Basic	CEMENT TRANSFER TO STORAGE (DEPT. 60)
B000066	PTO	Basic	SHIPPING - BULK, CEMENT
B001092	PTO	Basic	CLINKER RECEIVING AND STORAGE SYSTEM (1203)
B001093	PTO	Basic	FINISH MILL - (KFM - 12)
B001280	PTO	Basic	CLINKER AND GYPSUM RECLAIM SYSTEM (1204)
B001287	PTO	Basic	R/R RAW MATERIAL RECLAIM SYSTEM (1201)
B001288	PTO	Basic	RECEIVING SYSTEM - RAW MATERIAL
B001480	PTO	Basic	CEMENT WITHDRAWAL SYSTEM - NORTH PACKOUT
B001482	PTO	Basic	CEMENT WITHDRAWAL SYSTEM
B001484	PTO	Basic	PACKAGING SYSTEM
B001486	PTO	Basic	PACKAGING SYSTEM
B001640	PTO	Basic	SHIPPING - BULK CEMENT
B001683	PTO	Basic	CEMENT, BULK LOADOUT
B001784	PTO	Basic	TRANSFER EQUIPMENT
B001788	PTO	Basic	TRANSFER SYSTEM
B001954	PTO	Basic	SHIPPING, BULK CEMENT
B005192	PTO	Basic	FINISH MILL KM1

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B007633	PTO	Basic	GYPSUM UNLOADING AND CONVEYING SYSTEM
B007785	PTO	Basic	PLANT CLEANUP HOPPER
B011942	ATC	Basic	CKD HANDLING SYSTEM
B013522	ATC	Basic	DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR
B013523	ATC	Basic	DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR
C000003	PTO	Air Pollution Control Device	BAGHOUSE (JBH 11)
C000005	PTO	Air Pollution Control Device	BAGHOUSE (JBH 1)
C000006	PTO	Air Pollution Control Device	BAGHOUSE (JBH 2)
C000046	PTO	Air Pollution Control Device	BAGHOUSE (KBH 7)
C000048	PTO	Air Pollution Control Device	BAGHOUSE (KBH 8)
C000050	PTO	Air Pollution Control Device	BAGHOUSE (KBH 9)
C000052	PTO	Air Pollution Control Device	BAGHOUSE (KBH 10)
C000054	PTO	Air Pollution Control Device	BAGHOUSE (KBH 13)
C000055	PTO	Air Pollution Control Device	BAGHOUSE (KBH 15)
C000056	PTO	Air Pollution Control Device	BAGHOUSE (KBH 11)
C000057	PTO	Air Pollution Control Device	BAGHOUSE (JBH 14)
C000058	PTO	Air Pollution Control Device	BAGHOUSE (JBH 15)
C000060	PTO	Air Pollution Control Device	BAGHOUSE (LBH 1)
C000061	PTO	Air Pollution Control Device	BAGHOUSE (LBH 2)
C000062	PTO	Air Pollution Control Device	BAGHOUSE (LBH 3)
C000063	PTO	Air Pollution Control Device	BAGHOUSE (LBH 4)
C000065	PTO	Air Pollution Control Device	BAGHOUSE (LBH 6)
C000068	PTO	Air Pollution Control Device	BAGHOUSE (MBH 2)
C000071	PTO	Air Pollution Control Device	BAGHOUSE (MBH 5)
C000075	PTO	Air Pollution Control Device	BAGHOUSE (MBH 6)
C001276	PTO	Air Pollution Control Device	BAGHOUSE (JBH 5)
C001277	PTO	Air Pollution Control Device	BAGHOUSE (JBH 4)
C001278	PTO	Air Pollution Control Device	BAGHOUSE (JBH3)
C001279	PTO	Air Pollution Control Device	BAGHOUSE (KBH 16)
C001281	PTO	Air Pollution Control Device	BAGHOUSE (JBH 6)
C001282	PTO	Air Pollution Control Device	BAGHOUSE (JBH 7)
C001283	PTO	Air Pollution Control Device	BAGHOUSE (JBH 8)
C001284	PTO	Air Pollution Control Device	BAGHOUSE (JBH 9)
C001285	PTO	Air Pollution Control Device	BAGHOUSE (KBH 17)
C001286	PTO	Air Pollution Control Device	BAGHOUSE (KBH 18)
C001481	PTO	Air Pollution Control Device	BAGHOUSE (NBH 1)
C001483	PTO	Air Pollution Control Device	BAGHOUSE (NBH 2)
C001485	PTO	Air Pollution Control Device	BAGHOUSE (NBH 3)
C001487	PTO	Air Pollution Control Device	BAGHOUSE (NBH 4)
C001569	PTO	Air Pollution Control Device	BAGHOUSE (LBH 9)
C001684	PTO	Air Pollution Control Device	BAGHOUSE (MBH 1)
C001911	PTO	Air Pollution Control Device	BAGHOUSE (JBH 10)
C002011	PTO	Air Pollution Control Device	BAGHOUSE (KBH 14)
C002012	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 12)
C004854	PTO	Air Pollution Control Device	BAGHOUSE (JBH17)
C004855	PTO	Air Pollution Control Device	BAGHOUSE (JBH18)
C004856	PTO	Air Pollution Control Device	BAGHOUSE (JBH19)
C004857	PTO	Air Pollution Control Device	BAGHOUSE (JBH20)
C004858	PTO	Air Pollution Control Device	BAGHOUSE (JBH21)
C004859	PTO	Air Pollution Control Device	BAGHOUSE (JBH22)
C004860	PTO	Air Pollution Control Device	BAGHOUSE (JBH23)
C004861	PTO	Air Pollution Control Device	BAGHOUSE (JBH24)
C004862	PTO	Air Pollution Control Device	BAGHOUSE (JBH25)
C004863	PTO	Air Pollution Control Device	BAGHOUSE (JBH26)
C004864	PTO	Air Pollution Control Device	BAGHOUSE (MBH4)
C004865	PTO	Air Pollution Control Device	BAGHOUSE (MBH3)
C004867	PTO	Air Pollution Control Device	BAGHOUSE (JBH28)
C004868	PTO	Air Pollution Control Device	BAGHOUSE (JBH29)
C004869	PTO	Air Pollution Control Device	BAGHOUSE (JBH27)
C005193	PTO	Air Pollution Control Device	BAGHOUSE (KBH23)
C005194	PTO	Air Pollution Control Device	BAGHOUSE (KBH20)
C005195	PTO	Air Pollution Control Device	BAGHOUSE (KBH22)
C005196	PTO	Air Pollution Control Device	BAGHOUSE (KBH21)
C007370	PTO	Air Pollution Control Device	BAGHOUSE- MG3SB1BH1
C007371	PTO	Air Pollution Control Device	BAGHOUSE- MG3LS11BH1
C007372	PTO	Air Pollution Control Device	BAGHOUSE- MG3LS12BH1
C007634	PTO	Air Pollution Control Device	BAGHOUSE (JBH 30)
C007672	PTO	Air Pollution Control Device	BAGHOUSE JBH31
C007783	PTO	Air Pollution Control Device	BAGHOUSE JBH32

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C008185	PTO	Air Pollution Control Device	BAGHOUSE (MG3BH10)
C008190	PTO	Air Pollution Control Device	BAGHOUSE (MG3LS13BH1)
C008191	PTO	Air Pollution Control Device	BAGHOUSE (MG3LS14BH1)
C008192	PTO	Air Pollution Control Device	BAGHOUSE (MG3LS15BH1)
C008193	PTO	Air Pollution Control Device	BAGHOUSE (MG3LS16BH1)
C008245	PTO	Air Pollution Control Device	BAGHOUSE (JBH16)
C008246	PTO	Air Pollution Control Device	BAGHOUSE (LBH10)
C008247	PTO	Air Pollution Control Device	BAGHOUSE (LBH8)
C008438	PTO	Air Pollution Control Device	BAGHOUSE (MBH5B)
C008565	PTO	Air Pollution Control Device	BAGHOUSE (LBH11)
C008566	PTO	Air Pollution Control Device	BAGHOUSE (KBH20)
C008660	PTO	Air Pollution Control Device	BAGHOUSE- KBH19, WHICH SERVES FINISH MILL #12 SKS AIR SEPARATOR PROCESS UNDER DISTRICT PERMIT B001093
C011943	ATC	Air Pollution Control Device	CKD - RIVER SILO BAGHOUSE
C011945	PTO	Air Pollution Control Device	AFSC SYSTEM BAGHOUSE -1 (Alternative Fuels )
C011946	PTO	Air Pollution Control Device	AFSC SYSTEM BAGHOUSE - 2 (Alternative Fuels )
C011947	PTO	Air Pollution Control Device	AFSC SYSTEM BAGHOUSE - 3 (Alternative Fuels )
E013353	ATC	DIESEL IC ENGINE	EMERGENCY FIREWATER PUMP
N001452	PTO	Gasoline Service Station - Non-Retail	GASOLINE DISPENSING FACILITY (NON RETAIL)
T002049	PTO	Tanks (or Silos)	SILO - GROUP I LIME AND CEMENT STORAGE
T002050	PTO	Tanks (or Silos)	SILO - GROUP II CEMENT STORAGE
T002051	PTO	Tanks (or Silos)	SILO - GROUP III CEMENT STORAGE
T002052	PTO	Tanks (or Silos)	SILO - GROUP IV CEMENT STORAGE
T002053	PTO	Tanks (or Silos)	SILOS - CLINKER AND GYPSUM STORAGE
T007369	PTO	Tanks (or Silos)	CEMENT STORAGE BIN, SCALES & LOADOUT
T011944	ATC	Tanks (or Silos)	CDK RIVER SILO

## CEMEX - Black Mountain Quarry Plant

Permit #	Permit Status	Permit Type	Permit Description
B000080	PTO	Basic	CRUSHER - PRIMARY LIMESTONE
B000081	PTO	Basic	CRUSHER - SECONDARY LIMESTONE
B000082	PTO	Basic	LIMESTONE SHIPPING
B000083	PTO	Basic	RAW MATERIAL SYSTEM - NO. 1
B000085	PTO	Basic	CLINKER LOADOUT SYSTEM - RAIL
B001083	PTO	Basic	KILN (Q2) AND CLINKER COOLER SYSTEM
B001084	PTO	Basic	RAW MILL NO. 2 SYSTEM
B001085	PTO	Basic	COAL/COKE UNLOADING & TRANSFER SYSTEM
B012253	ATC	Basic	LIME INJECTION PROCESS
B001264	PTO	Basic	COAL UNLOADING SYSTEM
B001289	PTO	Basic	LIMESTONE RECLAIM SYSTEM
B001666	PTO	Basic	LIMESTONE STACKING SYSTEM - STORAGE
B001673	PTO	Basic	CLINKER TRANSFER SYSTEM - STORAGE SILO NO. 1
B001674	PTO	Basic	CLINKER TRANSFER SYSTEM - STORAGE SILO NO. 2
B001675	PTO	Basic	CLINKER TRANSFER SYSTEM (STORAGE DOME/HALL)
B001676	PTO	Basic	CLINKER RECLAIM SYSTEM - OUTSIDE STORAGE
B001677	PTO	Basic	CLINKER RECLAIM SYSTEM - STORAGE DOME
B001678	PTO	Basic	CLINKER RECLAIM SYSTEM - STORAGE SILO NO. 1
B001679	PTO	Basic	CLINKER RECLAIM SYSTEM - STORAGE SILO NO. 2
B002709	PTO	Basic	BULK TRUCK & SUPER SACK LOADOUT FACILITY
B005344	PTO	Basic	COAL STACKER & RECLAIM SYSTEM
B005362	PTO	Basic	KILN (Q3) AND CLINKER COOLER SYSTEM
B007336	PTO	Basic	ROLL PRESS No. 1, RAW MATERIAL GRINDING
B007340	PTO	Basic	KILN Q3 PRE-HEATER FEED SYSTEM
B007364	PTO	Basic	ROLL PRESS No. 2, RAW MATERIAL GRINDING
B007709	PTO	Basic	CLINKER STORAGE SYSTEM
B010327	PTO	Basic	ALTERNATIVE FUEL TRANSFER, STORAGE & INJECTION PROCESS
B010486	PTO	Basic	BIOSOLIDS FUEL TRANSFER, STORAGE & INJECTION PROCESS
B011678	PTO	Basic	ALTERNATIVE FUELS - STORAGE HALL AND CONVEYANCE SYSTEM
B011939	ATC	Basic	CKD HANDLING SYSTEM
B012195	ATC	Basic	LIMESTONE INJECTION PROCESS
C000087	PTO	Air Pollution Control Device	BAGHOUSE (DBH3)
C000092	PTO	Air Pollution Control Device	BAGHOUSE (HBH 6)
C000093	PTO	Air Pollution Control Device	BAGHOUSE (HBH 17)
C000094	PTO	Air Pollution Control Device	BAGHOUSE (FBH1)
C000095	PTO	Air Pollution Control Device	BAGHOUSE (EBH1)
C001090	PTO	Air Pollution Control Device	BAGHOUSE (GBH2)

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C001091	PTO	Air Pollution Control Device	BAGHOUSE (GGF 2)
C001290	PTO	Air Pollution Control Device	BAGHOUSE (CBH1)
C001291	PTO	Air Pollution Control Device	BAGHOUSE (CBH2)
C001292	PTO	Air Pollution Control Device	BAGHOUSE (DBH5)
C001293	PTO	Air Pollution Control Device	BAGHOUSE (DBH2)
C001294	PTO	Air Pollution Control Device	BAGHOUSE (EBH3)
C001295	PTO	Air Pollution Control Device	BAGHOUSE (EBH4)
C001296	PTO	Air Pollution Control Device	BAGHOUSE (DBH4)
C001297	PTO	Air Pollution Control Device	BAGHOUSE (HBH1A)
C001298	PTO	Air Pollution Control Device	BAGHOUSE (HBH 2)
C001299	PTO	Air Pollution Control Device	BAGHOUSE (EBH 5)
C001300	PTO	Air Pollution Control Device	BAGHOUSE (HBH 19)
C001301	PTO	Air Pollution Control Device	BAGHOUSE (HBH 3)
C001302	PTO	Air Pollution Control Device	BAGHOUSE (HBH 4)
C001303	PTO	Air Pollution Control Device	BAGHOUSE (HBH1B)
C001308	PTO	Air Pollution Control Device	BAGHOUSE (HBH 18)
C001660	PTO	Air Pollution Control Device	BAGHOUSE (HBH 20)
C001667	PTO	Air Pollution Control Device	BAGHOUSE (DBH1)
C001668	PTO	Air Pollution Control Device	BAGHOUSE (EBH2)
C001669	PTO	Air Pollution Control Device	BAGHOUSE (HBH 22)
C001670	PTO	Air Pollution Control Device	BAGHOUSE (HBH 21)
C002081	PTO	Air Pollution Control Device	BAGHOUSE
C002082	PTO	Air Pollution Control Device	BAGHOUSE
C002710	PTO	Air Pollution Control Device	BAGHOUSE (GWDBH)
C003249	PTO	Air Pollution Control Device	BAGHOUSE (QBH1)
C004870	PTO	Air Pollution Control Device	BAGHOUSE (HBH29)
C004871	PTO	Air Pollution Control Device	BAGHOUSE (HBH23)
C005190	PTO	Air Pollution Control Device	K2 G-COOLER DUST COLLECTOR (GGC BH)
C007337	PTO	Air Pollution Control Device	BAGHOUSE, CBH3, at Drop Tube from CBC8 (B001666), RAW MATERIAL TRANSPORT SYSTEM
C007347	PTO	Air Pollution Control Device	BAGHOUSE- HBH25, WHICH SERVES THE KILN Q-3 CLINKER PAN CONVEYOR
C007348	PTO	Air Pollution Control Device	BAGHOUSE- EBH6, WHICH SERVES THE KILN Q-3 PRE-HEATER SYSTEM
C007350	PTO	Air Pollution Control Device	BAGHOUSE- EBH7, CONTROL DEVICE FOR KILN Q-3 PRE-HEATER FEED SYSTEM
C007351	PTO	Air Pollution Control Device	BAGHOUSE- EBH8, WHICH SERVES KILN Q-3 PRE-HEATER FEED SYSTEM
C007353	PTO	Air Pollution Control Device	BAGHOUSE- DBH13, WHICH SERVES RAW MATERIAL TRANSPORT SYSTEM
C007355	PTO	Air Pollution Control Device	BAGHOUSE-DBH14, CONTROLLING EMISSIONS FROM THE RAW MATERIAL TRANSPORT SYSTEM
C007356	PTO	Air Pollution Control Device	BAGHOUSE-DBH15
C007358	PTO	Air Pollution Control Device	BAGHOUSE- (FPFB4DC), WHICH SERVES THE NEW PULVERIZED COAL BIN
C007359	PTO	Air Pollution Control Device	BAGHOUSE-FBH4P1
C007360	PTO	Air Pollution Control Device	BAGHOUSE- DBH 9, WHICH SERVES ROLL PRESS 1(MATERIAL GRINDING)
C007361	PTO	Air Pollution Control Device	BAGHOUSE DBH 7, WHICH SERVES ROLL PRESS No. 1
C007362	PTO	Air Pollution Control Device	BAGHOUSE-DBH 8, WHICH SERVES ROLL PRESS No.1
C007363	PTO	Air Pollution Control Device	BAGHOUSE- DBH 13, WHICH SERVES ROLL PRESS No.1
C007365	PTO	Air Pollution Control Device	BAGHOUSE-DBH 12, WHICH SERVES ROLL PRESS No. 2
C007366	PTO	Air Pollution Control Device	BAGHOUSE-DBH 10, WHICH SERVES ROLL PRESS No.2
C007367	PTO	Air Pollution Control Device	BAGHOUSE-DBH 11, WHICH SERVES ROLL PRESS No. 2
C007368	PTO	Air Pollution Control Device	MAIN BAGHOUSE, (GBH 3) WHICH SERVES KILN (Q3) AND CLINKER COOLER SYSTEM 3Q
C008244	PTO	Air Pollution Control Device	BAGHOUSE (DBH6)
C008253	PTO	Air Pollution Control Device	BAGHOUSE (EBH9)
C008473	ATC	Air Pollution Control Device	BAGHOUSE - EBH10
C008474	ATC	Air Pollution Control Device	BAGHOUSE - EBH11
C008821	PTO	Air Pollution Control Device	BAGHOUSE (HBH26)
C008822	PTO	Air Pollution Control Device	BAGHOUSE (HBH27)
C008823	PTO	Air Pollution Control Device	BAGHOUSE (HBH28)
C008824	PTO	Air Pollution Control Device	BAGHOUSE (HBH1C)
C008894	PTO	Air Pollution Control Device	BAGHOUSE (BBH1)
C008895	PTO	Air Pollution Control Device	BAGHOUSE (BBH2)
C009753	ATC	Air Pollution Control Device	BAGHOUSE (EBH12)
C010577	ATC	Air Pollution Control Device	BAGHOUSE (FPFB1V)
C010578	ATC	Air Pollution Control Device	BAGHOUSE (FPFB2V)
C010579	ATC	Air Pollution Control Device	BAGHOUSE (FPFB3V)
C010581	ATC	Air Pollution Control Device	BAGHOUSE (FBH2)
C011940	ATC	Air Pollution Control Device	CKD HANDLING SYSTEM COLLECTION HOPPER - BAGHOUSE
C011941	ATC	Air Pollution Control Device	CKD HANDLING SYSTEM - QUARRY SILO BAGHOUSE
C012194	ATC	Air Pollution Control Device	LISBH1 SILO – BAGHOUSE (limestone Injection System)
C012196	ATC	Air Pollution Control Device	LISBH2 SILO – BAGHOUSE (limestone Injection System)
C012650	ATC	Air Pollution Control Device	ACTIVATED CARBON INJECTION SYSTEM- KILN Q2
C012651	ATC	Air Pollution Control Device	ACTIVATED CARBON INJECTION SYSTEM- KILN Q3
E001910	PTO	Emergency I C E	DIESEL IC ENGINE, STATIONARY, EMERGENCY GENERATOR
E009245	PTO	Emergency I C E	DIESEL IC ENGINE PUMP, EMERGENCY

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E012225	ATC	Emergency I C E	DIESEL IC ENGINE, EMERGENCY GENERATOR
E012226	ATC	Emergency I C E	DIESEL IC ENGINE, EMERGENCY GENERATOR
N002209	PTO	Gasoline Service Station - Non-Retail	GASOLINE DISPENSING FACILITY (NON RETAIL)
T001997	PTO	Tanks (or Silos)	SILO - CLINKER STORAGE (1104)
T001998	PTO	Tanks (or Silos)	SILO - STORAGE
T004582	PTO	Tanks (or Silos)	TANK - WASTE OIL
T007339	PTO	Tanks (or Silos)	RAW MEAL TRANSPORT SYSTEM
T007357	PTO	Tanks (or Silos)	PULVERIZED COAL BIN (FPFB 4)
T008472	ATC	Tanks (or Silos)	SILO-RAW MEAL ES4
T009036	PTO	Tanks (or Silos)	EXTERIOR SOLID FUEL STORAGE, EMERGENCY
T010576	ATC	Tanks (or Silos)	TANKS, AQUEOUS AMMONIA
T010582	ATC	Tanks (or Silos)	COAL BINS
T011937	ATC	Tanks (or Silos)	CKD QUARRY SILO
T012193	ATC	Silo	LIS1 Limestone SILO
T012252	ATC	Silo	LIS2 Limestone SILO

## PART II

# FACILITY-WIDE APPLICABLE REQUIREMENTS AND EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS; TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; AND COMPLIANCE ASSURANCE MONITORING (CAM) PLANS

### ***A) REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT***

1. A person shall not build, erect, install, alter, replace, or operate or use any equipment, the use of which may cause the issuance of air contaminants or the use of which may reduce or control the issuance of air contaminants, without first obtaining a written permit from the Air Pollution Control Officer or except as provided in District Rule 202.  
[District Rules 201 – *Permits to Construct*]
2. The equipment at this facility shall not be operated contrary to the conditions specified in the District Permit to Operate.  
[District Rules 201 – *Permits to Construct* and District Rule 203 – *Permit to Operate*]
3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit.  
[District Rule 204 – *Permit Conditions*]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions specified in such permit.  
[District Rule 204 – *Permit Conditions*]
5. Posting of the Permit to Operate is required on or near the equipment or as otherwise approved by the APCO/District.  
[District Rule 206 – *Posting of Permit to Operate*]
6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules.  
[District Rule 207 – *Altering or Falsifying of Permit*]
7. Permits are not transferable.  
[District Rule 209 – *Transfer and Voiding of Permits*]

8. The Air Pollution Control Officer may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.  
[District Rule 217 – *Provisions for Sampling and Testing Facilities*]
9. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.  
[District Rule 219 – *Equipment Not Requiring a Permit*]
10. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.  
[District Rule 221 – *Federal Operating Permit Requirement*]
11. Owner/Operator shall pay all applicable MDAQMD permit fees.  
[District Rule 301 – *Permit Fees*]
12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.  
[District Rule 312 – *Fees for Federal Operating Permits*]
13. Owner/Operator shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:
  - (a) General Visible Emissions Limitation:
    - (i) As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
    - (ii) Of such opacity as to obscure an observer’s view to a degree equal to or greater than 20% opacity.
  - (b) Abrasive Blasting Visible Emissions Limitation:
    - (i) For indoor operations using noncertified Abrasive Blasting materials, of such opacity as to obscure an observer’s view to a degree equal to or greater than 20% opacity (or equivalent Ringelmann 1).
    - (ii) For outdoor operations using wet abrasive blasting, hydroblasting, vacuum blasting, or abrasives certified for permissible dry outdoor blasting materials, of such opacity as to obscure an observer’s view to a degree equal to or greater than 40% opacity (or equivalent Ringelmann 2).  
[District Rule 401 – *Visible Emissions*]
14. Except during high wind events, emissions of fugitive dust from any transport, handling, construction, or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility. The owner/operator shall comply with the applicable requirements of Rule 403(C) including obtaining and maintaining a District-approved Dust Control Plan.  
[District Rule 403 – *Fugitive Dust Control*]
15. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter



(PM) except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).

- (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
  - (b) This condition shall not apply to emissions resulting from the combustion of diesel or PUC quality natural gas fuels in steam generators or gas turbines.
  - (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
- [District Rule 404 – *Particulate Matter - Concentration*]

16. Owner/Operator shall not discharge into the atmosphere from any source at this facility, solid PM including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).

- (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
- (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

[District Rule 405 – *Solid Particulate Matter - Weight*]

17. Owner/Operator shall not discharge into the atmosphere, from any single source of emissions whatsoever, sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO<sub>2</sub>), greater than or equal to 500 ppm by volume.

[District Rule 406 – *Specific Contaminants*]

18. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.

- (a) The provisions of this condition shall not apply to emissions from internal combustion engines.

[District Rule 407 – *Liquid and Gaseous Air Contaminants*]

19. Owner/Operator shall not build, erect, install, or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.

- (a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.

[District Rule 408 - *Circumvention*]

20. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO<sub>2</sub>) at standard conditions averaged over a minimum of 15 consecutive minutes.

[District Rule 409 – *Combustion Contaminants*]

21. APCO, at his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment that has violated a technology-based emission limitation,

including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred per District Rule 430 and the facility has elected to provide immediate notification under District Rule 430, and:

- (a) Any breakdown that results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
- (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
- (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
- (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V – *Procedures Before the Hearing Board*.
- (e) If the breakdown occurs outside normal District working hours, the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the APCO.

[District Rule 430 – *Breakdown Provisions*]

22. Owner/Operator shall not burn any natural gas fuel at this facility containing sulfur compounds in excess of 16 parts per million (ppmv) calculated as hydrogen sulfide at standard conditions or any diesel fuel having a sulfur content in excess of 0.0015 percent by weight.

Compliance with Rule 431 sulfur limit for natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site for review by District, state or federal personnel at any time. Compliance with District Rule 431 sulfur limit for diesel fuel shall be determined by keeping records of the diesel fuel supplier's fuel analysis guarantee showing fuel sulfur content. The sulfur content of diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) Method D 5453 or any other equivalent method approved in writing by the APCD, CARB, and the USEPA.

[District Rule 431 – *Sulfur Content of Fuels*]

23. The owner/operator of this facility shall meet the following emission and operating requirements:

- (a) Shall not discharge VOCs into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes subject to District Rule 442, in excess of 540 kilograms (1,190 pounds) per month at this Facility.
  - (i) Compliance with the VOC limit above may be obtained through use of any of the following or any combination thereof:
    - a. Product reformulation or substitution;
    - b. Process changes;
    - c. Improvement of operational efficiency;
    - d. Development of innovative technology;

- e. Operation of emission collection and control system that reduces overall emissions by eighty-five percent (85%).
- (b) Shall not discharge into the atmosphere a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average. For purposes of VOC quantification, discharge shall include a drying period of 12 hours following the application of such non-VOC solvents.
- (c) The provisions of this condition shall not apply to:
  - (i) The manufacture, transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
  - (ii) The emissions of VOCs from VOC-containing materials or equipment which are subject to District Regulation IV rules or which are exempt from air pollution control requirements by such rules.
  - (iii) The use of pesticides including insecticides, rodenticides or herbicides.
  - (iv) The use of 1,1,1 trichloroethane, methylene chloride and trichlorotrifluoroethane.
  - (v) Aerosol products.
  - (vi) VOC containing materials or equipment which is not subject to VOC limits of any rule found in District Regulation XI – Source Specific Standards.
- (d) Owner/operator shall maintain daily usage records for all VOC-containing materials subject to this condition. The records shall be retained for five years and be made available upon request. VOC records shall include but not be limited to:
  - (i) The amount, type and VOC content of each solvent used; and
  - (ii) The method of application and substrate type; and
  - (iii) The permit units involved in the operation (if any).
- (e) Determination of VOC Content in Solvent-containing materials, Presence of VOC in Clean-up Materials, or Determination of Efficiency of Emission Control Systems must be made in accordance with methods and provisions of District Rule 442.

[District Rule 442 – *Usage of Solvents*]

24. Owner/Operator shall not set open outdoor fires unless in compliance with Rule 444. Outdoor fires burned according to an existing District permit are not considered “open outdoor fires” for the purposes of Rule 444 (Rule 444(B)(10)).  
[District Rule 444 – *Open Outdoor Fires*]

25. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of District Rule 1104 when engaged in wipe cleaning, cold solvent cleaning and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. Some of these requirements are listed as follows:

- (a) VOC Content
  - (i) An Owner/Operator shall not use a Solvent with a VOC content that exceeds 25 grams of VOC per liter, as applied, for cleaning or surface preparation in any operation subject to District Rule 1104.
  - (ii) As an alternative to, or in lieu of, the 25 grams of VOC per liter requirement indicated above, an Owner/Operator may use cleaning materials with a VOC composite vapor pressure limit of 8 millimeters of mercury (mmHg) or less at 20 degrees Celsius.
- (b) Control Equipment

- (i) Owners and/or Operators may comply with subsection (C)(1)(a) of District Rule 1104 by using approved air pollution Control Equipment provided that the VOC emissions from such operations and/or materials are reduced in accordance with the following:
  - a. The Control Equipment shall reduce emissions from an emission collection system by at least 95 percent (95%), by weight, or by reducing the output of the air pollution Control Equipment to less than 25 ppm calculated for carbon with no dilution; and
  - b. The Owner/Operator demonstrates that the system collects at least 90 percent (90%), by weight, of the emissions generated by the sources of emissions.
- (c) Cleaning Equipment and Method Requirements
  - (i) An Owner/Operator shall not perform Solvent cleaning unless one of the cleaning devices or methods contained in subsections a. through e. below is used, and the applicable requirements in subsections f. through k. below are used:
    - a. Wipe Cleaning;
    - b. Closed containers or hand held spray bottles from which Solvents are applied without a propellant-induced force;
    - c. Cleaning Equipment which as a Solvent container that can be, and is closed during non-operation with the exception of maintenance and repair to the Equipment itself;
    - d. Non-atomized Solvent flow method where the cleaning Solvent is collected in a container or a collection system which is closed except for Solvent collection openings and, if necessary, openings to avoid pressure build-up inside the container; or
    - e. Solvent flushing method where the cleaning Solvent is discharged into a container which is closed except for Solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container. The discharged Solvent from the Equipment must be collected into containers without atomizing into the open air. The Solvent may be flushed through the system by air or hydraulic pressure, or by pumping.
    - f. All Degreasers shall be equipped with the following:
      - 1. An apparatus or cover(s) which reduces solvent evaporation except for Remote Reservoirs.
      - 2. A permanent, conspicuous label summarizing the applicable operating requirements contained in subsection (C)(4) of District Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of District Rule 1104.
    - g. Remote Reservoirs shall be equipped with the following:
      - 1. A sink, platform or work area which is sloped sufficiently towards a drain to prevent pooling of Solvent within the work area.
      - 2. A single or total drain hole area, not larger than 100 square centimeters (15.5 square inches) in area, for the Solvent to flow

- 3. from the sink (platform/work area) into the Enclosed Reservoir.
- 3. If High Volatility Solvent is used, a drain cover/plug/closure device or a cover for placement over the top of the sink (platform/work area), when the Equipment is not being used, cleaned or repaired.
- 4. A minimum sink depth of six (6) inches, as measured from the top of the drain to the top of the side of the sink.
- h. Cold Solvent Degreasers - Freeboard Requirements:
  - 1. Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.
  - 2. Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover which remains closed during the cleaning operation.
  - 3. Any cold solvent degreasers using solvent which is agitated, or heated above 50°C (120°F) shall operate with a freeboard ratio equal to or greater than 0.75.
  - 4. A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than 1.
  - 5. Cold Solvent Degreasers using High Volatility Solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type which is designed to easily open and close without disturbing the vapor zone.
  - 6. A permanent, conspicuous mark locating the maximum allowable Solvent level conforming to the applicable freeboard requirements.
- i. Conveyorized Cold Solvent Degreasers shall be equipped with the following:
  - 1. A rotating basket or other method, to prevent cleaned parts from carrying out Solvent liquid.
  - 2. Minimized entrance and exit openings which silhouette the Workloads such that the average clearance between material and the edges of the cleaner openings are less than 10 centimeters (4 inches) or less than ten (10) percent of the opening width, whichever is greater.
  - 3. A Freeboard Ratio equal to or greater than 0.75.
  - 4. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy requirement of subsection (C)(3)(i)(iii) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters per minute per square meter of Solvent cleaner opening (at each Air-Vapor Interface), unless the rate must be changed to meet Federal and State Occupational Safety and Health

Administration requirements, and is approved in writing by the Air Pollution Control Officer (APCO).

- j. Batch-loaded Vapor Degreasers shall be equipped with the following:
  - 1. A cover that is a sliding, rolling or guillotine (bi-parting) type which is designed to easily open and close without disturbing the vapor zone.
  - 2. A Vapor Level Control Thermostat, a Condenser Flow Switch and a Spray Safety Switch.
  - 3. A Freeboard Ratio greater than or equal to 0.75.
  - 4. A Primary Condenser.
  - 5. In addition, Degreasers with an Evaporative Surface Area greater than or equal to one (1) square meter, shall be equipped with a Refrigerated Freeboard Chiller for which the chilled air blanket temperature (degrees Fahrenheit) at the coldest point on the vertical axis in the center of the Air- Vapor Interface shall be no greater than 30 percent of the Initial Boiling Point (degrees Fahrenheit) of the Solvent used, or 40 degrees Fahrenheit, whichever is greater. (If the chiller operates below the freezing temperature of water, it shall be equipped with an automatic defrost).
  - 6. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy the requirements of subsections (C)(3)(j)(i) and(iii) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters per minute per square meter of Solvent cleaner opening (at each Air-Vapor Interface), unless the rate must be changed to meet Federal and/or State Occupational Safety and Health Administration requirements, and is approve in writing by the APCO.
- k. Conveyorized Vapor Degreasers shall be equipped with the following:
  - 1. An enclosed drying tunnel or other method, such as a rotating basket, sufficient to prevent cleaned parts from carrying out Solvent liquid or vapor.
  - 2. Minimized entrance and exit openings which silhouette the Workloads such that the average clearance between material and the edges of the Degreaser openings are less than ten (10) centimeters (four (4) inches) or less than ten (10) percent of the opening, whichever is greater.
  - 3. A Primary Condenser.
  - 4. A Freeboard Ratio equal to or greater than 0.75.
  - 5. A vapor control thermostat, a Condenser Flow Switch, and a Spray Safety Switch.
  - 6. Additionally, a Refrigerated Freeboard Chiller for which the

chilled air blanket temperature (degrees Fahrenheit) at the coldest point on the vertical axis in the center of the Air- Vapor Interface shall be no greater than 30 percent of the Initial Boiling Point (degrees Fahrenheit) of the Solvent used, or 40 degrees Fahrenheit, whichever is greater. (If the chiller operates below the freezing temperature of water, it shall be equipped with an automatic defrost).

7. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy requirements of subsections (C)(3)(k)(iv) and (vi) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters/min per square meter of Degreaser opening (at each Air-Vapor Interface), unless the rate must be changed to meet Federal and State Occupational Safety and Health Administration requirements, and is approved in writing by the District APCO.

(d) Operating Requirements

- (i) All Degreasers shall comply with the following requirements:
  - a. Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.
  - b. Degreasers shall not be operating with any detectable solvent leaks.
  - c. All solvent, including waste solvent, waste solvent residues, and used applicators, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.
  - d. Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; or a federally or state licensed facility to treat, store or dispose of such waste; or the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.
  - e. Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.
  - f. Solvent carryout shall be minimized by the following methods:
    1. Rack workload arranged to promote complete drainage
    2. Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.
    3. Retain the workload inside of the vapor zone until condensation ceases.
    4. Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.
    5. Do not remove parts from the degreaser until the parts are

- visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)
- g. The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.
  - h. Except for sealed chamber degreasers, all solvent agitation shall be by pump recirculation, a mixer, or ultrasonics.
  - i. The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.
  - j. For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.
  - k. Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.
  - l. Cleaning operations shall be located so as to minimize air circulation and drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.
  - m. A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.
- (ii) Batch-loaded and ConveyORIZED Degreasers shall, in addition to the requirements in subsection (C)(4)(a), meet the following operating requirements:
- a. When starting the Degreaser, the cooling system shall be turned on before, or simultaneously with, the sump heater.
  - b. When shutting down the Degreaser, the sump heater shall be turned off before, or simultaneously with, the cooling system.
  - c. The Workload Area shall not occupy more than half of the Evaporative Surface Area of the Degreaser.
  - d. Except for Sealed Chambers, the spray must be kept at least ten (10) centimeters (four (4) inches) below the top of the vapor level and be pointed downward, to prevent turbulence at the air-Solvent vapor interface.
- (iii) Remote Reservoir Degreasers shall, in addition to the applicable requirements in subsection (C)(4)(a) of District Rule 1104, meet the following operating requirements:
- a. The Solvent pump shall not circulate Solvent into the sink unless a Workload is being actively processed.
  - b. The sink of a Remote Reservoir Degreaser or any container placed therein may not be used to soak a Workload. Such use is prohibited and such use will cause the unit to be classified as a Cold Solvent Degreaser and be subject to provisions of subsection (C)(3)(h) of District Rule 1104.
  - c. Parts shall be visually dry and not dripping/leaking Solvent before



- being removed from the sink. Parts shall be tipped to release any trapped pools of Solvent before being removed from the sink.
- d. The Workload must “drip-dry” while being contained completely within the sink.
  - (e) District Rule 442 Applicability:  
Any solvent using operation or facility which is not subject to the source-specific District Rule 1104 shall comply with the provisions of District Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the VOC limits, equipment limits or the operational limits of District Rule 1104 shall be subject to the applicable provisions of District Rule 442.
  - (f) Solvent Usage Records:  
Owner/Operator subject to District Rule 1104 or claiming any exemption under District Rule 1104, Section (E), shall comply with the following requirements:
    - (i) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:
      - a. Product name(s) used in the degreaser, and
      - b. The mix ratio of solvent compounds mixtures of solvents are used, and
      - c. VOC content of solvent or mixture of compounds as used, and
      - d. The total volume of the solvent(s) used for the facility, on a monthly basis, and
      - e. The name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.
    - (ii) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of District Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data is recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.
    - (iii) Documentation shall be maintained on site of the disposal or on site recycling of any waste solvent or residues.
    - (iv) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5 year period as required by this Title V/Federal Operating Permit.

[District Rule 1104 – *Organic Solvent Degreasing Operations*]

26. Owner/Operator’s use of Architectural Coatings at this facility shall comply with the requirements of District Rule 1113, including the VOC limits specified in District Rule 1113, part C, as listed below:

<p><b><u>VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS</u></b></p>
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<b>Coating Category</b>	<b>Current Limit</b>	<b>Effective 01/01/2022</b>
<b>Primary Coatings</b>	----	----
Flat Coatings	50	
Nonflat Coatings	100	50
<b>Specialty Coatings</b>	----	----
Aluminum Roof Coatings	400	100
Basement Specialty Coatings	400	
Bituminous Roof Coatings	50	
Bituminous Roof Primers	350	
Bond Breakers	350	
Building Envelope Coatings		50
Concrete Curing Compounds	350	
Concrete/Masonry Sealers	100	
Driveway Sealers	50	
Dry Fog Coatings	150	50
Faux Finishing Coatings	350	
Fire Resistive Coatings	350	150
Floor Coatings	100	50
Form-Release Compounds	250	100
Graphic Arts Coatings (Sign Paints)	500	
High Temperature Coatings	420	
Industrial Maintenance Coatings	250	
Low Solids Coatings <sup>a</sup>	120	
Magnesite Cement Coatings	450	
Mastic Texture Coatings	100	
Metallic Pigmented Coatings	500	
Multi-Color Coatings	250	
Pre-Treatment Wash Primers	420	
Primers, Sealers, and Undercoaters	100	
Reactive Penetrating Sealers	350	
Recycled Coatings	250	
Roof Coatings	50	
Rust Preventative Coatings	250	
Shellacs:	----	----
Clear	730	
Opaque	550	
Specialty Primers, Sealers, and Undercoaters	100	
Stains:	----	----
Exterior/Dual	250	100
Interior	250	100
Stone Consolidants	450	
Swimming Pool Coatings	340	
Tire and Stone Sealers	100	
Traffic Marking Coatings	100	

Tub and Tile Refinish Coatings	420	
Waterproofing Membranes	250	100
Wood Coatings	275	
Wood Preservatives	350	
Zinc-Rich Primers	340	
<i>a: Limit is expressed as VOC Actual</i>		

Limits are expressed as VOC Regulatory, thinned to the manufacturer’s maximum recommendation excluding the volume of any water, Exempt Compounds, or Colorant added to tint bases. Manufacturer’s maximum recommendation” means the maximum recommendation for thinning that is indicated on the label or lid of the Coating container.

[District Rule 1113 – *Architectural Coatings*]

27. Owner/Operator’s use of *Wood Products Coatings* at this facility shall comply with the applicable requirements of Rule 1114, including the VOC limits specified in Rule 1114, as listed below:

Owner/Operator shall not apply to wood products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 90 percent:

<b><u>VOC CONTENT OF COATINGS AND ADHESIVES FOR NEW WOOD PRODUCTS</u></b>		
(Grams of VOC Per Liter of Coating or Pounds Per Gallon, Less Water and Less Exempt Compounds)		
<b>Coating Category</b>	g/L	(lb/gal)
General	275	(2.3)
Adhesives	250	(2.1)
Clear Sealers	275	(2.3)
Clear Topcoats	275	(2.3)
Conversion Varnish	550	(4.6)
Fillers	275	(2.3)
High-Solids Stains	240	(2.0)
Inks	500	(4.2)
Low-Solids Stains, Toners and Washcoats	120	(1.0)
Medium Density Fiberboard (MDF) Coatings	275	(2.3)
Mold Seal	750	(6.3)
Multi-Colored Coatings	275	(2.3)
Pigmented Primers, Sealers and Undercoats	275	(2.3)
Pigmented Topcoats	275	(2.3)

<b><u>VOC CONTENT OF COATINGS AND ADHESIVES FOR REFINISHING, REPAIRING, PRESERVING, OR RESTORING WOOD PRODUCTS</u></b>		
(Grams of VOC Per Liter of Coating or Pounds Per Gallon, Less Water and Less Exempt Compounds)		
<b>Coating Category</b>	<b>g/L</b>	<b>(lb/gal)</b>
General	420	(3.5)
Clear Topcoats	680	(5.7)
Conversion Varnish	550	(4.6)
Fillers	500	(4.2)
High-Solids Stains	700	(5.8)
Inks	500	(4.2)
Low-Solids Stains, Toners and Washcoats	480	(4.0)
Medium Density Fiberboard (MDF) Coatings	680	(5.7)
Mold-Seal Coating	750	(6.3)
Multi-Colored Coatings	680	(5.7)
Pigmented Coatings	600	(5.0)
Sealers	680	(5.7)

[District Rule 1114 – *Wood Products Coating Operations*]

28. Owner/Operator’s use of *Metal Parts and Products Coatings* at this facility shall comply with the applicable requirements of Rule 1115, including the VOC limits specified in Rule 1115, as listed below:

Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 90 percent:

<b><u>VOC CONTENT LIMITS FOR METAL PARTS AND PRODUCTS COATINGS</u></b>				
(Grams of VOC Per Liter of Coating or Pounds Per Gallon, Less Water and Less Exempt Compounds)				
<b>Coating Category</b>	<b>Air Dried</b>		<b>Baked</b>	
	<u>g/L</u>	(lb/gal)	g/L	(lb/gal)
General One-Component*	340	(2.8)	275	(2.3)
General Multi-Component*	340	(2.8)	275	(2.3)
Military Specification	340	(2.8)	275	(2.3)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)

High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	360	(3.0)
Extreme-Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural One-Component	420	(3.5)	275	(2.3)
Prefabricated Architectural Multi-Component	420	(3.5)	275	(2.3)
Touch-Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High-Performance Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	360	(3.0)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Drum (New, Exterior)	340	(2.8)	340	(2.8)
Drum (New, Interior)	420	(3.5)	420	(3.5)
Drum (Reconditioned, Exterior)	420	(3.5)	420	(3.5)
Drum (Reconditioned, Interior)	500	(4.2)	500	(4.2)
Chemical Agent Resistant	340	(2.8)	280	(2.3)
*A General Coating is a Coating that does not meet a specific Coating category definition and is assumed to be a general use Coating and subject to the VOC limit for a General Coating.				

[District Rule 1115 – Metal Parts & Products Coating Operations]

29. Owner/Operator must comply with District Rule 1160 – *Internal Combustion Engines*, as applicable.
- (a) District Rule 1160 applies to any stationary Internal Combustion Engine rated at 50 or more brake horsepower (bhp), when located within the Federal Ozone Nonattainment Area, that does not meet the following:
    - (i) Any Internal Combustion Engine rated at less than 50 brake horsepower.
    - (ii) Any Internal Combustion Engine operated less than 100 hours in any rolling twelve (12) month period.
    - (iii) Any Internal Combustion Engine subject to the Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines rated at 50 Horsepower and Greater, Title 17 CCR 93116, or otherwise classified as a Portable Internal Combustion Engine.
    - (iv) Any Internal Combustion Engine that is an Emergency Internal Combustion Engine provided that the Internal Combustion Engine does not operate more than 100 hours for non-emergency use in any rolling twelve (12) month

- period.
- (v) Any Internal Combustion Engine operated on an engine test stand.
  - (vi) Any Internal Combustion Engine subject to District Rule 1160.1 – Internal Combustion Engines in Agricultural Operations.
  - (vii) Any Internal Combustion Engine located outside the Federal Ozone Nonattainment Area.
  - (viii) Any Internal Combustion Engine registered with a Statewide Portable Equipment Registration (PERP), provided that the Internal Combustion Engine is operating in compliance with the Regulation to Establish a Statewide Portable Equipment Registration Program, Title 13 CCR 2450, and for which the Internal Combustion Engine does not require a local District Permit.
- (b) Emission Limits
- (i) NO<sub>x</sub> Emissions
    - (a) Internal Combustion Engines subject to District Rule 1160 shall not exceed the following emission limits in Table 1, unless compliance is demonstrated using an Alternative Compliance Strategy pursuant to subsection (C)(2) of District Rule 1160.

<b><u>NO<sub>x</sub> EMISSION LIMITS FOR INTERNAL COMBUSTION ENGINES</u></b>	
<b><u>ENGINES</u></b>	
(ppmv limitations shall be referenced at 15 percent volume stack gas oxygen measured on a dry basis and averaged over 15 consecutive minutes)	
Engine Type	NO <sub>x</sub> Limit
Spark-Ignited Internal Combustion Engine, Rich Burn	50 ppmv
Spark-Ignited Internal Combustion Engine, Lean Burn	125 ppmv
Compression Ignition Internal Combustion Engine	80 ppmv

- (ii) VOC Emissions
  - (b) Internal Combustion Engines subject to District Rule 1160 shall not exceed the following emission limits in Table 2, unless compliance is demonstrated using an Alternative Compliance Strategy pursuant to subsection (C)(2) of District Rule 1160.

<b><u>VOC EMISSION LIMITS FOR INTERNAL COMBUSTION ENGINES</u></b>	
<b><u>ENGINES</u></b>	
(ppmv limitations shall be referenced at 15 percent volume stack gas oxygen measured on a dry basis and averaged over 15 consecutive minutes)	
Engine Type	VOC Limit
Spark-Ignited Internal Combustion Engine, Rich Burn	106 ppmv
Spark-Ignited Internal Combustion Engine, Lean Burn	106 ppmv
Compression Ignition Internal Combustion Engine	106 ppmv

- (iii) CO Emissions
  - (c) Internal Combustion Engines subject to District Rule 1160 shall not exceed the following emission limits in Table 3, unless compliance is demonstrated using an Alternative Compliance Strategy pursuant to subsection (C)(2) of District Rule 1160.

<b><u>VOC EMISSION LIMITS FOR INTERNAL COMBUSTION ENGINES</u></b>	
<b><u>ENGINES</u></b>	
(ppmv limitations shall be referenced at 15 percent volume stack gas oxygen measured on a dry basis and averaged over 15 consecutive minutes)	
<b>Engine Type</b>	<b>CO Limit</b>
Spark-Ignited Internal Combustion Engine, Rich Burn	4500 ppmv
Spark-Ignited Internal Combustion Engine, Lean Burn	4500 ppmv
Compression Ignition Internal Combustion Engine	4500 ppmv

[District Rule 1160]

- 30. Owner/Operator must comply with District Rule 1161 – Portland Cement Kilns, as applicable. The Portland Cement kiln shall comply with the following requirements:
  - (a) NOX Reduction Technologies
    - (i) The Owner/Operator of a kiln subject to District Rule 1161 shall operate such equipment with NO<sub>x</sub> RACT. RACT shall be specific to the type of kiln being Operated, and can include - but is not limited to any one, or a combination of, the following:
      - a. Combustion Controls
      - b. Low NO<sub>x</sub> burners
      - c. Staged combustion
      - d. NO<sub>x</sub>-reducing fuels or substances (includes tire-derived fuels).
  - (b) NO<sub>x</sub> RACT Emission Limits – All periods except Start-up and Shut-down
    - (i) The Owner/Operator of a kiln subject to District Rule 1161 shall not exceed the following NO<sub>x</sub> emission limits, calculated pursuant to Section (E)(1)(b) of District Rule 1161, during periods of operation other than Start-up and Shut-down:
      - a. For Preheater-Precalciner Kilns: 2.8 lb/ton of clinker produced when averaged over any 30 consecutive day period; or,
      - b. For a Portland Cement Kiln operating with over fifteen (15) percent of Heat Input from any combination of Low-Carbon Fuels: 3.4 lb/ton of Clinker produced when averaged over any 30 consecutive day period.
  - (c) NO<sub>x</sub> RACT Emission Limits –Start-up and Shut-down Periods
    - (i) The Owner/Operator of a kiln subject to District Rule 1161 shall not exceed the following limits during Start-up and Shut-down periods:
      - a. For Preheater-Precalciner Kilns manufactured by Allis Chalmers whose construction was completed in 1982: 17,616 lb NO<sub>x</sub>/day
      - b. For Preheater-Precalciner Kilns manufactured by Humboldt-Wedag whose construction was completed in 1984: 28,160 lb NO<sub>x</sub>/day

- c. For all other Kiln types: maximum heat input of 4,500 MMBtu/day/Kiln
- (d) Additional Start-up and Shut-down Requirements
  - (i) The frequency and duration of Operation in Start-up or Shut-down mode will be minimized to the maximum extent practicable, and in no case shall the duration of the Start-up or Shut-down period exceed 36 hours;
  - (ii) All possible steps will be taken to minimize the impact of emissions during Start-up and Shut-down on ambient air quality;
  - (iii) The facility must be Operated in a manner consistent with good practice for minimizing emissions, and the source must have used best efforts regarding planning, design and operating procedures to meet the applicable emission limitation; and
  - (iv) The Owner/Operator's actions during Start-up and Shut-down periods must be documented by contemporaneous operating logs signed by the operator on duty at the time of Start-up or Shut-down or other relevant evidence.
- (e) Alternative Compliance Strategy
  - (i) As an alternative to complying with the limits specified in Section (C)(2) of District Rule 1161 on a Permit Unit basis, the Owner or Operator of a Kiln subject to this District Rule 1161 may be allowed to aggregate NO<sub>x</sub> Emissions from all cement Kilns at a single Facility, subject to the following conditions:
    - a. The Owner or Operator must request, in writing, to Aggregate Emissions pursuant to the Compliance Schedule set forth in Section (I) of District Rule 1161.
    - b. Aggregating of Emissions must be approved in writing by the District.
    - c. Aggregating of Emissions shall be allowed only between Kiln types with the same Emission limits, as set forth in Section (C)(2)(a) of District Rule 1161.
    - d. The Aggregated Emissions Limit for NO<sub>x</sub> shall be less than or equal to ninety percent (90%) of the sum of the total NO<sub>x</sub> Emissions from all Kilns at a Facility, as allowed pursuant to Section (C)(2) of District Rule 1161.
    - e. The Aggregate Emissions per ton of Clinker shall be calculated as the Aggregate Emissions divided by the Facility Clinker production sum for the same period. When this option is approved, the aggregated NO<sub>x</sub> Emissions per Clinker ton will be used to comply with the NO<sub>x</sub> RACT Emission Limit.
    - f. Regardless of method of compliance employed (Permit Unit limit or Aggregate Emission Limit), and prior to implementation, the applicable Emission limits and method of compliance shall be incorporated into the District Permit to Operate (PTO) for each Kiln.
- (f) Compliance Determination
  - (i) Any Owner or Operator of a Kiln subject to District Rule 1161 shall make the following determinations, as set forth herein:
    - a. Compliance determinations shall not be established from data obtained during the periods specified in Section (G) – Exemptions.



- b. Emission Calculation Method (i) Emissions shall be calculated by dividing the sum of all hourly lb of NO<sub>x</sub> for the current operating day and the preceding 29 operating days by the tons of Clinker produced over the same period of time. Such calculations shall exclude any Emissions and Clinker produced during those time periods specified in Section (G) – Exemptions, and during Start-up and Shut-down.
  - c. Any Owner or Operator of a Kiln subject to Rule 1161 shall convert observed NO<sub>x</sub> concentrations to a mass emission rate using the following formula (for purposes of this calculation, standard conditions are @ 68 °F and 29.92 inches Hg):  
$$\text{lb/hr} = 7.1497 \times 10^{-6} (\text{ppmv})(\text{dscfm})$$
  - d. For the purposes of Rule 1161, Oxides of Nitrogen shall be calculated as NO<sub>2</sub> on a dry basis.
- (g) Monitoring and Recordkeeping
- (i) Continuous Emissions Monitoring
    - a. The Owner/Operator of a kiln subject to District Rule 1161 shall not Operate such equipment unless it is equipped with one of the following:
      - 1. A CEMS monitoring system which meets the requirements of 40 CFR Part 60, Subpart A, and Appendix B, and complies with the quality assurance procedures specified in 40 CFR Part 60, Appendix F. The CEMS shall be used to demonstrate compliance with the applicable emission limit, specified pursuant to Section (C)(2) of this rule by measuring NO<sub>x</sub> emissions.
      - 2. If an Owner or Operator can demonstrate, by preponderance of the evidence, that installation of a CEMS conforming to the requirements of Section (g)(i)a.1. above is technologically and economically unfeasible, the Owner or Operator may provide an alternate calculation and recordkeeping procedure based upon Actual Emission testing and correlations with operating parameters (such as Kiln loading, fuel-type, percent excess oxygen, etc.). The installation, implementation and use of such an alternate calculation and recordkeeping procedure must be approved by the District, CARB and USEPA, in writing, prior to implementation.
    - b. The CEMS or approved alternate recordkeeping procedure shall be operated and maintained in strict accordance with the manufacturer's/supplier's specifications and in continual compliance with the provisions of District Rule 1161.
  - (ii) Recordkeeping Requirements
    - a. The Owner/Operator of a kiln subject to District Rule 1161 shall produce and maintain CEMS records, or alternate records pursuant to Section (F)(1)(a)(ii) of District Rule 1161, for each affected kiln on a daily basis. Such records shall include, but are not limited to:
      - 1. The emissions, in pounds, of NO<sub>x</sub> from each cement kiln if

- complying with the limit specified in (C)(2) of this rule on a permit unit basis; or
  - 2. The aggregate emissions, in pounds, of NO<sub>x</sub> from all cement kilns at a facility, if complying with the limit specified in (C)(2) of District Rule 1161 on an aggregate basis, as approved by the District.
  - 3. The date, time and duration of any start-up, shutdown or malfunction in the Operation of any of the kiln systems or the emissions monitoring equipment;
  - 4. The results of performance testing, evaluation, calibration checks, adjustments and maintenance of the CEMS or approved alternate recordkeeping procedure employed, pursuant to the requirements of Section (F)(1)(a)(ii) of District Rule 1161.
- b. The Owner/Operator of a kiln subject to District Rule 1161 shall produce and maintain daily records of NO<sub>x</sub> emission concentrations and NO<sub>x</sub> mass emission rate, as required by Section (E)(1)(c) of District Rule 1161.
  - c. The Owner/Operator of a kiln subject to District Rule 1161 shall produce and maintain daily clinker production records.
  - d. The Owner/Operator of a kiln subject to District Rule 1161 shall produce and maintain daily records of the type and quantity of fuel used.
  - e. All records required to be produced or maintained shall be retained on site for a minimum of five years and be made available to the APCO or his designee upon request.
- (iii) Emission Reporting
    - a. Daily NO<sub>x</sub> emission data for the calendar quarter compiled pursuant to Section (F)(2)(a)(i) or (ii) of District Rule 1161 shall be submitted to the District. All quarterly reports must be received within 30 days after the end of each quarter.
- (h) Exemptions
    - (i) The requirements of Sections (C) and (D) of District Rule 1161 shall not apply to periods during which any gaseous/liquid fuel is used (except Start-up and Shut-down), and the applicable emission limit is consequently exceeded. This exemption shall be subject to the following conditions:
      - a. The total allowable exceedance period shall be limited to an aggregate total of 14 calendar days per calendar year; and
      - b. Operating pursuant to this exemption shall not relieve the owner or operator from the requirements of District Regulations II, XII or XIII; and
      - c. This exemption shall only apply to periods when there is an interruption in the supply of solid fuel which is beyond the control of the facility; and
      - d. The frequency and duration of operation under this exemption will be minimized to the maximum extent practicable; and
      - e. All possible steps will be taken to minimize the impact of emissions

- on ambient air quality during gaseous or liquid fuel use;
      - f. The facility must be Operated in a manner consistent with good practice for minimizing emissions, and the source must have used best efforts regarding planning, design and operating procedures to meet the applicable emission limitation; and
      - g. The Owner/Operator's actions under this exemption must be documented by properly signed, contemporaneous operating logs, or other relevant evidence.
- (i) Test Methods
  - (i) The following tests shall be used in conducting compliance testing, Relative Accuracy Test Audits (RATA) and other testing required for compliance with this Rule:
    - a. Compliance testing shall be subject to the protocols prescribed in the District's Compliance Test Procedural Manual.
    - b. Certification Testing shall be subject to the protocols prescribed in the District's Compliance Test Procedural Manual and 40 CFR 60, Appendix B.
    - c. Quality Assurance Testing shall be subject to the protocols prescribed in the District's Compliance Test Procedural Manual and 40 CFR Part 60, Appendix F.
    - d. Oxides of nitrogen stack testing for purposes of this Rule shall be conducted pursuant to EPA Method 7E, "Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)" or CARB Method 100, "Procedures for Continuous Gaseous Emission Stack Sampling (Stack Gas NO<sub>x</sub>)."
    - e. Stack gas flow rate testing shall be conducted pursuant to EPA Method 2, "Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pilot Tube)."
    - f. Oxygen concentration stack testing shall be conducted pursuant to EPA Method 3A, "Determination of O<sub>2</sub> and CO<sub>2</sub> Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)" or CARB Method 100.
- (j) Compliance Schedule
  - (i) Any Owner or Operator of a Permit Unit subject to Rule 1161 shall comply with all applicable requirements immediately upon adoption, except:
    - a. Those Owners or Operators following the alternative compliance strategy pursuant to subsection (D)(1) of Rule 1161 shall comply with an Aggregated Emissions Limit for NO<sub>x</sub> less than or equal to ninety percent (90%) of the sum of the total allowable NO<sub>x</sub> Emissions from all Kilns at the Facility by April 22, 2002. Prior to that date, such Owners or Operators shall at a minimum comply with an Aggregated Emission Limit for NO<sub>x</sub> less than or equal to the sum of the total allowable NO<sub>x</sub> Emissions from all Kilns at the Facility.
- (k) Violations
  - (i) The occurrence of any of the following shall constitute a violation of Rule 1161:
    - a. Exceedance of the applicable Emission limit specified pursuant to

Section (C)(2) of District Rule 1161, unless the Facility has an approved Aggregate Emissions Limit, as set forth in Section (D) of District Rule 1161;

- b. Exceedance of the applicable Emission limit specified pursuant to subsection (C)(3) of District Rule 1161;
- c. For facilities which have been approved to Aggregate Emissions, exceedance of the sum of the total NOx Emissions from all Kilns at a Facility, as set forth in Section (D)(1)(d) of District Rule 1161, shall constitute a violation of this Rule for every permitted unit operating during the exceedance period in the averaging group:
  - 1. A violation of the aggregate limit shall also be considered a violation of the 30-day average for the Facility. Such exceedances shall be determined by using the emission calculation method set forth in Section (E)(1)(b)(i) of District Rule 1161, and considered on a daily basis.
- d. Failure to comply with any limits contained in District Rule 1161, as determined by any one of the test methods in Section (H), or by any other previously approved test method, as set forth in a valid PTO pursuant to Regulation II or Regulation XII;
- e. Exceedance of the 14 day exemption period for gaseous/liquid fuel use, as set forth in Section (G)(1)(a) of District Rule 1161;
- f. Lack of data collection and/or reporting, pursuant to the requirements of Section (F)(2) and (F)(3) of District Rule 1161;
- g. Failure to comply with any provision of this Rule shall constitute a violation of District Rule 1161.

[District Rule 1161]

- 31. Owner/Operator shall comply with all requirements of Rule 1168 – *Adhesive and Sealant Applications*. Specifically, the Owner/Operator shall not apply Adhesives, Adhesive Primers, Sealants, Sealant Primers, or any other Primer which have a VOC content in excess of the limits specified in Table 1:

<b><u>ADHESIVE AND SEALANT APPLICATION CATEGORIES AND VOC LIMITS</u></b>		
(Grams of VOC Per Liter of Coating or Pounds Per Gallon, Less Water and Less Exempt Compounds)		
<b>Application Process</b>	<b>g/L</b>	<b>(lb/gal)</b>
<b>General Adhesives</b> <i>(General adhesive application processes are those not specifically identified in other categories listed below as specialty adhesives application processes).</i>	----	----
Fiberglass	80	0.7
Flexible Vinyl	250	2.1
Metal	30	0.3
Plastic Foams	50	0.4

Porous Material (Except Wood)	50	0.4
Pre-formed Rubber Products	250	2.1
Reinforced Plastic Composite	200	1.7
Rubber	250	2.1
Wood	30	0.3
Other Substrates	250	2.1
<b>Specialty Adhesives</b>	----	----
Building Envelope Membrane	250	2.1
Carpet Pad	50	0.4
Ceramic Tile Installation	65	0.5
Contact Adhesive	80	0.7
Contact Adhesive – Special Purpose	250	2.1
Cove Base Installation	50	0.4
Drywall and Panel	50	0.4
Edge Glue	250	2.1
Elastomeric	750	6.3
Floor Covering Installation (Indoor)	150	1.3
Floor Covering Installation (Outdoor)	250	2.1
Immersible Product Manufacturing	650	5.4
Indoor Carpet	50	0.4
Metal to Urethane/Rubber Molding or Casting	850	7.1
Motor Vehicle	250	2.1
Motor Vehicle Weatherstrip	750	6.3
Multipurpose Construction	70	0.6
Non-membrane Roof Installation/Repair	300	2.5
Other Flooring	50	0.4
Perimeter Bonded Sheet Vinyl	660	5.5
Plastic Solvent Welding:	----	----
ABS	325	2.7
ABS to PVC Transition	510	4.3
Cellulose	100	0.8
CPVC	490	4.1
PVC	510	4.3
Styrene-Acrylonitrile	100	0.8
All Other Plastic Solvent Welding	250	2.1
Rubber Floor	60	0.5
Sheet Rubber Lining Installation	850	7.1
Single-Ply Roof Membrane Installation/Repair	250	2.1
Structural Glazing	100	0.8
Structural Wood Member	140	1.7
Subfloor	50	0.4
Then Metal Laminating	780	6.5
Tire Retread	100	0.8
Top and Trim	540	4.5

Traffic Marking Tape	150	1.3
VCT and Asphalt Tile	50	0.4
Waterproof Resorcinol Glue	170	1.4
Wood Flooring	100	0.8
<b>Adhesive Primer</b>	----	----
Motor Vehicle Glass Bonding	900	7.5
Plastic Solvent Welding	550	4.6
Single-Ply Roof Membrane	250	2.1
Traffic Marking Tape	150	1.3
Other Adhesive Primer	250	2.1
<b>Sealant Primers</b>	----	----
Architectural – Non-Porous	250	2.1
Architectural – Porous	775	6.5
Modified Bituminous	500	4.2
Other Sealant Primer	750	6.3
<b>Sealants</b>	----	----
Architectural	250	2.1
Non-Membrane Roof	300	2.5
Non-Staining Plumbing Putty	150	1.3
Potable Water	100	0.8
Roadway	250	2.1
Single-Ply Roof Membrane	450	3.8
All Other Architectural Sealants	50	0.4
All Other Roof Sealants	300	2.5
All Other Sealants	420	3.5

The VOC limits of Table 1 shall not apply to use of an Adhesive or Sealant, on a military installation, for which there is a Military Specification which has been approved by the Air Pollution Control Officer (APCO) in writing pursuant to this subsection.

Any person seeking to use an Adhesive or Sealant, for which there is a Military Specification, which is subject to the provisions of District Rule 1168, shall:

- (i) Submit a petition to the APCO stating the performance requirements, volume of Adhesive or Sealant, and VOC content which is attainable. Such petition shall include a technical justification of the attainable VOC content and an explanation why the Adhesive or Sealant cannot meet the limits set forth in Table 1.
- (ii) If the APCO grants written approval, such petition shall be resubmitted for approval on an annual basis.
- (iii) If the APCO grants written approval, such approval shall contain volume and VOC limit conditions.
- (iv) Records shall be maintained pursuant to District Rule 1168(D).

[District Rule 1168 - *Adhesive and Sealant Applications*]

32. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210  
[District Regulation XII – *Federal Operating Permits*].
33. Owner/Operator shall comply with all requirements of Rule 1211 - Greenhouse Gas Provisions of Federal Operating Permits. Specifically, the Owner/Operator shall include Greenhouse Gas (GHG) emission data and all applicable GHG requirements with any application, as specified in 1211(D)(1), for a Federal Operating Permit.  
[Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*; 40 CFR 98, Subpart A – *General Provisions*]

## ***B) FACILITYWIDE MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS***

1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data, or logs shall be supplied to District, state, or federal personnel upon request.  
[District Rule 1203(D)(1)(d)(ii); 40 CFR 70.6(a)(3)(ii)(B)]
2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's *Compliance Test Procedural Manual*. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the *Written Test Protocol* accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved *Written Test Protocol* may be used with District concurrence.  
[District Rule 204]
3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
  - (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
  - (b) Fuel suppliers' fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement are sufficient.

A facility wide Comprehensive Emissions Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, on an annual basis or upon District request.

[District Rules 107(b) and 204; California Clean Air Act, Health and Safety Code

§§39607 and §§44300, 44341-44342 et seq., 40 CFR 51 – Subpart A, 70.6(a)(3)(B);  
Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B);  
§187(a)(5); § 301(a)]

4. Owner/Operator shall submit Compliance Certifications as prescribed by Rule 1203(F)(1) and Rule 1208, in a format approved by MDAQMD. The Compliance Certification, submitted by a Responsible Official, shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.  
[District Rules 1203(D)(1)(g)(v-x), 1203(F)(1), 1208; 40 CFR 70.6(c)(5)(i), 72.90.a]
- (a) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.  
[District Rule 1203(D)(1)(g)(viii); 40 CFR 70.6(c)(5)(ii)]
  - (b) Owner/Operator when submitting any Compliance Certification(s) to the District shall contemporaneously submit such Compliance Certification(s) to USEPA, Region IX Administrator.  
[District Rule 1203(D)(g)(ix); 40 CFR 70.6(5)(iii)]
  - (c) Owner/Operator shall comply with any additional certification requirements as specified in 42 United States Code (U.S.C.) §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.  
[District Rule 1203 (D)(1)(g)(x)]
  - (d) Owner/operator shall submit a *Compliance Certification Report* to the APCO/District on an *annual* basis. The *Compliance Certification Report* shall cover the 12-month period from October 1 to September 30, and be postmarked no later than 30 days after the end of the reporting period. Each report shall be certified to be true, accurate, and complete by “The Responsible Official” and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.  
[District Rule 1203 (D)(1)(g)(v - x); District Rule 1203 (F)(1); 40 CFR 72.90.a]
5. Owner/Operator shall submit, *semi-annually* a *Monitoring Report* to the APCO/District, with a copy to the USEPA, Region IX Administrator. This *Monitoring Report* shall be certified to be true, accurate, and complete by “The Responsible Official” and shall include the following information and/or data:
- (a) Summary of deviations from any federally enforceable requirement in this permit.
  - (b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
  - (c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.
  - (d) The semi-annual reporting period shall be submitted as follows:
    - 1. March 1st through August 31st, due no later than September 30th of each year; and,



2. September 1st through February 28th, due no later than March 31st of each year.

[District Rules 1203(D)(1)(c)(i - iii), 1203(D)(1)(d)(i), 1203(D)(1)(e)(i - ii), 1203(D)(1)(g)(v - x), and 1203(F)(1)]

6. Owner/Operator shall promptly report all deviations from Federal Operating Permit requirements including, but not limited to, any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation.

[District Rules 430(C) and 1203(D)(1)(e)(ii)]

Prompt reporting shall be determined as follows:

- (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District.

[SIP Pending: Rule 430 - Breakdown Provisions as amended 12/21/94 and submitted 02/24/95 and 40 CFR 70.6(g)]

- (b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required *Monitoring Reports* at least every six (6) months.

[District Rule 1203(D)(1)(e)(i)]

7. If any facility unit(s) should be determined not to be compliant with any federally enforceable requirement during the 5-year permit term, then Owner/Operator shall obtain a *Schedule of Compliance*. In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:

- (a) A narrative description of how the facility will achieve compliance with such requirements; and
- (b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and
- (c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the

schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance.

[District Rules 1201 (I)(3)(iii), 1203 (D)(1)(e)(ii), and 1203 (D)(1)(g)(v)]

8. The permit holder shall submit an application for renewal of this Title V Permit at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal operating permit (FOP). If an application for renewal has not been submitted and deemed complete in accordance with this deadline, the facility may not operate under the (previously valid) FOP after FOP expiration date. If the permit renewal has not been issued by FOP expiration date, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application.  
[District Rules 1202(B)(3)(b)(i) and 1202(E)(2)(a)]
9. The facility shall perform all applicable compliance assurance monitoring requirements set forth in 40 CFR 64 and Appendix B of this permit.  
[40 CFR 64]

### ***C) FACILITYWIDE COMPLIANCE CONDITIONS***

1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.  
[District Rule 1203(D)(1)(g)(i); 40 CFR 70.6(c)(2)(i)]
2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.  
[District Rule 1203(D)(1)(g)(ii); 40 CFR 70.6(c)(2)(ii)]
3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.  
[District Rule 1203(D)(1)(g)(iii); 40 CFR 70.6(c)(2)(iii)]
4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.  
[District Rule 1203(D)(1)(g)(iv); 40 CFR 70.6(c)(2)(iv)]
5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal

application.

[District Rule 1203 (D)(1)(f)(ii)]

6. Owner/Operator shall comply in a timely manner with all federally enforceable requirements that become effective during the term of this permit.  
[District Rules 1201 (I)(2) and 1203(D)(1)(g)(v)]
7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, Subpart A, *General Provisions*, and Subpart M, *National Emission Standard for Asbestos*.  
[40 CFR 61, Subparts A and M]
8. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 Subpart M, *National Emission Standard for Asbestos*.  
[40 CFR 61.145.b]
9. Owner/Operator shall notify the APCO/District, on an annual basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, Subpart M [see cite for threshold triggering and applicability].  
[40 CFR 61.145.b]
10. Owner/Operator shall comply with all requirements of Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*. Specifically, the Owner/Operator shall include Greenhouse Gas (GHG) emission data and all applicable GHG requirements with any application, as specified in 1211(D)(1), for a Federal Operating Permit.  
[District Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*]

## ***D) COMPLIANCE ASSURANCE MONITORING (CAM)***

There are currently 14 Pollutant Specific Emission Units (PSEUs) located at the CEMEX – Construction Materials Pacific LLC – River Plant and Black Mountain Quarry Plant that meet the applicability requirements of 40 CFR 64.2, *Compliance Assurance Monitoring: Applicability*. A CAM Plan for these PSEUs has been added to the FOP and can be found in Appendix B.

[District Rule 204 – *Permit Conditions*; 40 CFR 64]

# PART III EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS AND EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS; TESTING REQUIREMENTS; AND COMPLIANCE CONDITIONS

Unless Otherwise Stated, All Following Conditions Result From Rule 204 – Permit Conditions. Version  
In SIP = CARB EX. ORDER G-73, 40 CFR 52.220(C)(39)(II)(B) - 11/09/78 43 FR 52237; Current Rule  
Version = 07/25/77

## 1) CEMEX – RIVER PLANT

### ***A) GROUP #1 – CLINKER STORAGE & HANDLING***

#### **a. B000004 - CLINKER AND GYPSUM TRANSFER SYSTEM**

*EQUIPMENT DESCRIPTION: 25.0 HP Belt Conveyor – JBC-18.*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. Materials processed shall contain sufficient natural or added moisture to ensure compliance with Rules 401, 402 and 403. Sufficient water and equipment to properly wet the material

being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.  
[District Rules 204, 401, 402, 403 and 1303]

**b. B001287- R/R RAW MATERIAL RECLAIM SYSTEM (1201)**

*EQUIPMENT DESCRIPTION: Controls: C000005 (JBH-1) 253 hp; C000006 (JBH-2) permitted under B001288.*

30.0	hp	Feeder, Apron, Covered – J AFC-1, J AFC-2
150.0	hp	Belt Conveyor – JBC-1
3.0	hp	Screw Conveyor – JBH-1SC
<hr/>		
183	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C000005 and C000006.  
[District Rules 204 and 1303]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**c. C000005 - BAGHOUSE (JBH-1)**

*EQUIPMENT DESCRIPTION: model 625-16 PC pulsejet type baghouse with 640 polyester bags, each measuring 4.63" diameter x 123" long. Cloth area is tbd, air flow is 60,000 ACFM. Air to Cloth ratio is tbd. Fan motor is rated at 253 hp.*

*Serving Raw Material Receiving Conveyors permitted under B001287*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

200.0	hp	Exhaust Fan, ICA NOLB 54
50.0	hp	Air Compressor, Gardner-Denver
3.0	hp	Screw Conveyor, 10,000 SF, 60,000 cfm
<hr/>		
253.0	hp	Total

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Raw Material Receiving Conveyor permitted under B001287.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Annual inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.01 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
9. The pollutant-specific emission unit (B001287), for which this baghouse controls is subject

to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 2 and 6 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:

- a. Inspect the affected equipment;
- b. Initiate a corrective action, within 24 hours; and
- c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.

[40 CFR 64.7(d)]

**d. B001288 - RECEIVING SYSTEM - RAW MATERIAL**

*EQUIPMENT DESCRIPTION: Controls: C000006 (JBH2), C007672 (JBH31)*

30.0	hp	<i>Belt Conveyor 36" x 576'; 505 fpm @ 900 tons/hour, contained within storage building – JBC4</i>
25.0	hp	<i>Belt Conveyor 36" x 491'; 475 FPM @ 900 tons/hour, contained within storage building – JBC5</i>
55.0	hp	<i>Total</i>

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000006 & C007672 (JBH31).  
[District Rule 204 and 1303]

**e. C000006 - BAGHOUSE (JBH-2)**

*EQUIPMENT DESCRIPTION: Serves Raw Material Receiving Conveyors (B001288).*

*Reverse pressure cleaning SWPC type MK V fabric duster collector, two-compartment, with 144 6-1/8" dia x 150" long filament dacron sateen bags with American Standard 15 MH Series 106 exhauster - JBH2*

*A/C ratio: 1.74:1, 2,880 ft<sup>2</sup>, 5,000 cfm*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those

recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with the Raw Material Receiving Conveyors under District Permit B001288.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (annually);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**f. C007672 - BAGHOUSE (JBH-31)**



*EQUIPMENT DESCRIPTION: Mikropul baghouse, Model No. 815-10-20, with 81 bags, each measuring 4 5/8" X 12' 5" each, total filtration area of 954 sq ft, air flow of 4170 acfm. Fan motor is rated at 15 hp at 1800 rpm.*

*Controls emissions from the drop point from belt conveyor JBC4 to belt conveyor JBC5 permit under B001288 ( Group #1).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the drop point from Belt Conveyor JBC-4 to Belt Conveyor JBC-5 under District Permit B001288.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test.

However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**g. B001092 - CLINKER RECEIVING AND STORAGE SYSTEM (1203)**

*EQUIPMENT DESCRIPTION: Controls: C001277 (JBH-4); C001278 (JBH-3).*

200.0	hp	Belt Conveyor, covered – JBC-2
25.0	hp	Belt Conveyor, covered – JBC-3
0	hp	Clinker Silo, south (T002053)
0	hp	Clinker Silo, east (T002053)
<hr/>		
225.0	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment (and either of C001277 or C001278 depending on which silo is being filled).  
[District Rules 204 and 1303]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**h. C001277 - BAGHOUSE (JBH-4)**

*EQUIPMENT DESCRIPTION: Baghouse, Clinker Silo, Flex Kleen model 120 WRTC-64 (III), pulse-jet type, with 64 polyester bags, each measuring 6" x 120.5". Cloth area is 979 ft<sup>2</sup>, air flow is 4,500 cfm. Fan motor is rated at 30 hp.*

*Serves Clinker Conveyor to Storage permitted under B001092*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which

produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Clinker Conveyor to Storage permitted under B001092.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**i. C001278 - BAGHOUSE (JBH-3)**

*EQUIPMENT DESCRIPTION: Baghouse, Clinker Silo, Flex Kleen model 120 WRTC-48 (III), pulse-jet type, with 48 polyester bags, each measuring 6" x 120.5". Cloth area is 734 ft<sup>2</sup>, air flow is 4,000 cfm. Fan motor is rated at 25 hp.*

*Serves Clinker Conveyor to Storage permitted under B001092*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Clinker Conveyor to Storage permitted under B001092.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**j. T002053 - SILOS - CLINKER AND GYPSUM STORAGE**

*EQUIPMENT DESCRIPTION: Controls: under B001092: C001277 (JBH-4) 30 hp; C001278 (JBH-3) 25 hp. Under B007633: C001276 (JBH-5) 25 hp; C007634 (JBH-30) 6 hp.*

<i>935000.0 gallons</i>	<i>Silo West-Gyp; 125,000 CF</i>
<i>1047200.0 gallons</i>	<i>Silo South-Clkr; 140,000 CF</i>
<i>1047000.0 gallons</i>	<i>Silo East-Clkr; 140,000 CF</i>
<hr/> <i>3029200.0 gallons</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. These silos shall not be filled unless vented to that functional air pollution control equipment covered by valid District permits: C001276, C001277, C001278, and/or C007634 (JBH-5, JBH-4, JBH-3, JBH-30).  
[District Rule 204 and 1303]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**k. B007633 - GYPSUM UNLOADING AND CONVEYING SYSTEM**

*EQUIPMENT DESCRIPTION:*

<i>25.0 hp</i>	<i>Conveyor belt, JBC-18, which unloads the two gypsum Truck Unloading Hoppers</i>
<i>75.0 hp</i>	<i>Conveyor belt, JBC-19, fed by JBC-18 and feeds gypsum silo, District permit T002053</i>
<hr/> <i>100.0 hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless vented to properly functioning baghouses under valid District permits C007634 and C001276.  
[District Rule 204 and 1303]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

[40 CFR Part 63 Subpart LLL]

## **I. C001276 - BAGHOUSE (JBH-5)**

*EQUIPMENT DESCRIPTION: Baghouse, Gypsum Silo, Flex Kleen model 120 WRTC-48(III), pulse jet type, with 48 polyester bags, 6" x 120.5" each, 734 ft<sup>2</sup> total cloth area, air flow is 4,000 cfm. Fan motor rated at 25 hp. Emissions are estimated to be 0.02 gr/acf.*

*Serves Gypsum unloading and conveying system permitted under B007633*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Gypsum unloading and conveying system permitted under B007933.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]

6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV. [District Rule 204]

**m. C007634 - BAGHOUSE (JBH 30)**

*EQUIPMENT DESCRIPTION: A Flex-Kleen model 120 BVTS-36, AR III, pulse jet type with 36 polyester bags, each measuring 6" X 120.5" long, total filtration area is 551 sq ft, airflow is 2,000 acfm, Air-to-Cloth ratio of 3.6:1. Fan motor is 6 hp.*

*Controls emissions from the Truck Unloading System permitted under B007633.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [District Rule 204]
2. This baghouse shall be operated concurrently with the Truck Unloading System-gypsum train under valid District permit B007633. [District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**n. B007785 - PLANT CLEAN-UP HOPPER**

*EQUIPMENT DESCRIPTION: Hopper for front-end loader and truck unloading of miscellaneous plant materials (system includes an enclosed drop onto JBC1 (B001287)).*

5.0	hp	Barber-Green Belt Conveyor 36" x 20' (10 tph) (JBC1RB)
0	hp	6 ton Clean-Up Hopper
225.0	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District Permit C007783 (JBH32).  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**o. C007783 - BAGHOUSE (JBH 32)**

*EQUIPMENT DESCRIPTION An Arrestall single cotton cartridge baghouse with 132 sq ft of filter area, a fan of to be determined horsepower generating 1950 acfm through the cartridge (for*



*an air-to-cloth ratio of 14 to 1) and expected emissions of 0.008 grain/cu ft. This baghouse serves the Plant Cleanup Hopper (B007785). This unit vents the drop from the cleanup hopper belt to JBC1 (B001287).*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the equipment described as the Plant Cleanup Hopper (B007785) at the pickup point mentioned above.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.008 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

## ***B) GROUP #2A – CLINKER GYPSUM RECLAIM and STORAGE SYSTEM***

### **a. B001280 - CLINKER AND GYPSUM RECLAIM SYSTEM (1204)**

*EQUIPMENT DESCRIPTION: Hopper for front-end loader and truck unloading of miscellaneous plant materials (system includes an enclosed drop onto JBC1 (B001287)).*

5.0 hp	Bin Vibrator - JTS2VB2
19.0 hp	Conveyor Vibrator - JVF3, 4, 5
10.0 hp	Conveyor Belt - JBC9
40.0 hp	Conveyor Belt – JBC10
150.0 hp	Conveyor Belt – JBC11
<u>15.0 hp</u>	<u>Conveyor Belt – JBC12</u>
225.0 hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by all three valid District permits C001281, C001282, and C001283. If flow is diverted to system B000053 or B001788 then additional control device operating with valid District Permit C001284 shall be employed.  
[District Rule 204]

### **b. C001281 - BAGHOUSE (JBH 6)**

*EQUIPMENT DESCRIPTION: Baghouse, FM-12, Flex Kleen model 120 WRTC-80 (III), pulse jet type baghouse with 80 polyester bags, each measuring 6" X 120.5", total cloth area is 1,224 ft<sup>2</sup>, air flow is 6,000 cfm. Fan motor is rated at 30 hp.*

*Serves Clinker and Gypsum Reclaim System permitted under B001280*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Clinker and Gypsum Reclaim (B001280).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**c. C001282 - BAGHOUSE (JBH 7)**

*EQUIPMENT DESCRIPTION: Baghouse, Clinker and Gypsum Reclaim, Flex Kleen model 120 WRTC-48 (III), pulse jet type, with 48 polyester bags, 6" x 120.5", Total cloth area is 734 ft<sup>2</sup>, air flow is 3,500 cfm. Fan motor is rated at 25 hp.*

*Serves Clinker Conveyor to Storage permitted under B001280*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Clinker Conveyor to Storage permitted under B001280.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**d. C001283 - BAGHOUSE (JBH 8)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120 WRTC-48 (III), pulse jet type, with 48 polyester bags, each measuring 6" x 120.5", total cloth area is 734 ft<sup>2</sup>, air flow is 3,500 cfm. Fan motor is rated at 25 hp.*

*Serves Clinker Conveyor to Storage permitted under B001280.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

*Facility elevation is 2711 feet above sea level.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Clinker Conveyor to Storage permitted under B001280.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**e. B000011 - CLINKER AND GYPSUM RECLAIM SYSTEM**

*EQUIPMENT DESCRIPTION: Control: C000003 (JBH11)*

20.0	hp	Reclaim Feeders, 2 @ 10 hp each
30.0	hp	Conveyors (20, 5, 5 hp) – JBC15, 16, 17
15.0	hp	Conveyors (15) – JBC14
50.0	hp	Elevator – JE1
115.0	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment (C000003).  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**f. C000003 - BAGHOUSE (JBH 11)**

*EQUIPMENT DESCRIPTION: Baghouse, SWPC Model Mk V, reverse air type, with 312 polyester bags, each measuring 6 1/8" dia x 149' L, total cloth area is 5,650 ft<sup>2</sup>; air flow is 11,300 cfm. Air to cloth ratio is 2:1. Fan motor is rated at 25 hp.*

*Serving Clinker and Gypsum Reclaim Conveyors permitted under B000011*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Clinker & Gypsum Reclaim Conveyors permitted under B000011.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**g. B000007 - CLINKER AND GYPSUM TRANSFER SYSTEM**

*EQUIPMENT DESCRIPTION: Control: C004867 (JBH28); C004868 (JBH29); C004869 (JBH27); C000056 (KBH11) under B000053 and C001911 (JBH 10) under B001788.*

87.5	hp	Belt Conveyors (50, 15, 7.5 hp, 15hp) - JBC6, 7, 8, 13
150.0	hp	Elevator - JE2
237.5	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated without the baghouses with valid District permits (C000056, C004867, C004868 and C004869) in proper operation.  
[District Rule 204]

**h. C004867 - BAGHOUSE (JBH28)**

*EQUIPMENT DESCRIPTION: Flex Kleen Model 120 WSTS-36 Arr (III), Pulse-Jet type, with 36 Polyester Bags, measuring 6" x 120.5", total filtration area of 551ft<sup>2</sup>, airflow of 3000 cfm, Air-to-Cloth ratio of 5.4:1. Fan motor is rated at 10 hp.*

*Controls emissions from Conveyors associated with the Clinker Railroad unloading Station permitted under B000007 and B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.



[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**i. C004868 - BAGHOUSE (JBH29)**

*EQUIPMENT DESCRIPTION:*

*Flex Kleen Model 120 WSTS-36 Arr (III), Pulse-Jet type, with 36 Polyester Bags, measuring 6" x 120.5", total filtration area of 551ft<sup>2</sup>, airflow of 3000 cfm, Air-to-Cloth ratio of 5.4:1. Fan motor is rated at 10 hp.*

*Controls emissions from Conveyors associated with the Clinker Railroad unloading Station permitted under B000007 and B000009.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;

- b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**j. C004869 - BAGHOUSE (JBH27)**

*EQUIPMENT DESCRIPTION: Flex Kleen Model 120 WSTS-36 Arr (III), Pulse-Jet type, with 36 Polyester Bags, measuring 6" x 120.5", total filtration area of 551ft<sup>2</sup>, airflow of 3000 cfm, Air-to-Cloth ratio of 5.4:1. Fan motor is rated at 10 hp.*

*Controls emissions from Conveyors associated with the Clinker Railroad unloading Station permitted under B000007 and B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**k. B000009 - HANDLING AND STORAGE SYSTEM**

*EQUIPMENT DESCRIPTION: For Clinker Product serving Finish Mills 7, 8, 9, and 10.  
Controls: C008245 (JBH16); C004854 (JBH17); C004855 (JBH18); C004856 (JBH19); C004857 (JBH20); C004858 (JBH21); C004859 (JBH22); C004860 (JBH23); C004861 (JBH24); C004862 (JBH25); C004863 (JBH26); C004869 (JBH27); C004867 (JBH28); C004868 (JBH29)*

7.5	hp	Belt Conveyor – JBC7
2.0	hp	Screw Conveyor – JBH12SC
9.5	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless all of the control equipment mentioned above are functioning and operating.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

## **I. C004854 - BAGHOUSE (JBH 17)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);

- d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**m. C004855 - BAGHOUSE (JBH 18)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from Belt JBC7 and JBH12SC conveyor; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**n. C004856 - BAGHOUSE (JBH 19)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**o. C004857 - BAGHOUSE (JBH 20)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP.



This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV. [District Rule 204]

**p. C004858 - BAGHOUSE (JBH 21)**

*EQUIPMENT DESCRIPTION:*

*DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**q. C004859 - BAGHOUSE (JBH 22)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test),

and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;

- e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**r. C004860 - BAGHOUSE (JBH 23)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**s. C004861 - BAGHOUSE (JBH 24)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**t. C004862 - BAGHOUSE (JBH 25)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rule 204]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

[District Rules 204 and 1303]

**u. C004863 - BAGHOUSE (JBH 26)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Controls emissions from a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10; permitted under B000009.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland

Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

v. **C008245 - BAGHOUSE (JBH 16)**

*EQUIPMENT DESCRIPTION: DCE Model C24H, Pulse-Jet type, with 6 cartridges, total filtration area of 258 ft<sup>2</sup>, airflow of 1500 cfm, Air-to-Cloth ratio of 5.8:1. Fan motor is rated at 3 hp.*

*Serves Belt JBC7 and JBH12SC conveyor permitted under B000009*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Belt JBC7 and JBH12SC conveyor permitted under B000009.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the



frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;

- e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
- 4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
- 5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
- 6. This baghouse shall discharge no more than 0.13 lb/hour, at a maximum concentration of 0.01 grains/dscf of PM10, at the operating conditions described above. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
- 7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
- 8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.

**w. B001788 – TRANSFER SYSTEM**

*EQUIPMENT DESCRIPTION: To Clinker/Gypsum Bins. Control: C001284 (JBH9); C001911 (JBH10).*

15.0	hp	Belt Conveyor – JBC13
0.0	hp	Clinker Tripper – JBC13T
15.0	hp	Total

- 1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
- 2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C001284 and C001911.  
[District Rule 204]

3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**x. C001284 - BAGHOUSE (JBH 9)**

*EQUIPMENT DESCRIPTION: Baghouse, Clinker and Gypsum Reclaim, Flex Kleen model 120 WRTC-48 (III), pulse jet type, with 48 Polyester bags, each measuring 6" x 120.5". Total cloth area is 734 ft<sup>2</sup>, air flow is 3,500 cfm. Fan motor is rated at 25 hp.*

*Serves Clinker Conveyor to Storage JB13 permitted under B001788*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column..*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Conveyor to Storage JB13 permitted under B001788.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

y. **C001911 - BAGHOUSE (JBH 10)**

*EQUIPMENT DESCRIPTION: Pulse Jet type Dust Collector, Clinker/Gypsum Reclaim, DCE Vokes, with 20 polyester bags. Total cloth area is 215 ft<sup>2</sup>, 1,500 cfm. Fan motor is rated at 5 hp.*

*Serves Clinker Conveyor to Storage JB13 permitted under B001788*

*Facility has specified that the normal operating range for pressure differential is between 1 and 4 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Conveyor to Storage JB13 permitted under B001788.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - c. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

## ***C) GROUP #2B – POZZOLAN RECEPTION***

### **a. B015128 – ALUMINOUS CORRECTOR/POZZOLAN RECEPTION SYSTEM**

*EQUIPMENT DESCRIPTION: Conveyance system to transport aluminous corrector/pozzolan materials. System vents to baghouses under District Permits C015120, C015121, and C015122.*

73.33	hp	Conveyor Belt, Covered – 381-02-413-02 ( )
20.0	hp	Conveyor Belt, Covered – 381-06-413-02 ( )
0	hp	Aluminous Corrector, Storage Pile
<u>147.5</u>	<u>hp</u>	<u>Conveyor Belt, Covered – 381-32-413-02 ( )</u>
240.83	hp	Total

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless transfer from the feeders and collection hopper are vented to a properly functioning baghouse operating with valid District permits C015120, C015121, and C015122.  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request.
  - a) A site-specific monitoring plan;
  - b) Monthly throughput in tons; and,
  - c) Annual throughput in tons.[District Rules 204 and 1303; 40 CFR 63.1350]
4. Material throughput from this system shall not exceed 10,950,000 tons/year.  
[District Rule 204 and 1303]
5. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
6. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**b. C015120 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is TBD sq.ft., air flow is 1,875 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 4 hp. Exhaust temperature is 110 F.*

*Unit serves Aluminous Corrector/Pozzolan Reception System permitted under District Permit B015128.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Aluminous Corrector/Pozzolan

Reception System permitted under District Permit B015128.  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.04 pounds per hour of PM<sub>10</sub> at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be

performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.04 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.

[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**c. C015121 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is TBD sq.ft., air flow is 2,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 4 hp. Exhaust temperature is 110 F.*

*Unit serves Aluminous Corrector/Pozzolan Reception System permitted under District Permit B015128.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Aluminous Corrector/Pozzolan Reception System permitted under District Permit B015128.  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.05 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that



baghouse stack emissions do not exceed 0.05 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.

[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**d. C015122 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is TBD sq.ft., air flow is 2,625 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5.4 hp. Exhaust temperature is 110 F.*

*Unit serves Aluminous Corrector/Pozzolan Reception System permitted under District Permit B015128.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Aluminous Corrector/Pozzolan Reception System permitted under District Permit B015128.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of

the following information, which shall be provided to District personnel upon request:

- a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
  6. This baghouse shall discharge no more than 0.06 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
  8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
  9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.06 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.

[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

## ***D) GROUP #2C – LIMESTONE FEED SYSTEM***

### **a. B015087 – LIMESTONE FEED SYSTEM**

*EQUIPMENT DESCRIPTION: Conveyance system to transport additional limestone from the existing material storage building to Finish Mills 1 and 12.*

50.0	hp	Conveyor Belt, Covered (JBC4)
50.0	hp	Conveyor Belt, Covered (JBC5)
0	hp	Storage (JCS1)
24.0	hp	Vibrating Feeders, West Tunnel, 8 x 3.5 hp (#-#)
50.0	hp	Conveyor Belt, West Tunnel (JBC14)
24.0	hp	Vibrating Feeders, East Tunnel, 8 x 3.5 hp (#-#)
50.0	hp	Conveyor Belt, East Tunnel (JBC15)
15.0	hp	Belt Conveyor, Covered - 315-13-413-01 ( )
55.0	hp	Bucket Elevator – 315-17-412-01 ( )
20.0	hp	Conveyor Belt, Covered – 315-23-413-01 ( )
30.0	hp	Conveyor Belt, Covered – 315-24-413-01 ( )
0.0	hp	Limestone Silo (under District Permit T015129)
1.5	hp	Limestone Weigh Feeder (to FM1) ( )
7.5	hp	Conveyor Belt, Covered (to FM1) ( )
1.5	hp	Limestone Weigh Feeder to FM12 ( )
15.0	hp	Conveyor Belt, Covered (to FM12) ( )
15.0	hp	Conveyor Belt, Covered (to FM12) ( )
103	hp	Plant Air Compressor/Air Dryer – 821-01-323-01

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*511.5 hp Total*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless transfer from the feeders and collection hopper are vented to a properly functioning baghouse operating with valid District permits C015088 through C015112.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request.
  - a) A site-specific monitoring plan;
  - b) Monthly throughput in tons from East and West Tunnel Belts; and,
  - c) Annual throughput in tons from East and West Tunnel Belts.[District Rules 204 and 1303; 40 CFR 63.1350]
4. Material throughput from East and West Tunnel Belts shall not exceed 4,380,000 tons/year combined.  
[District Rule 204 and 1303]
5. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
6. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**b. T015129 – LIMESTONE FEED SYSTEM SILO**

*EQUIPMENT DESCRIPTION: A limestone storage silo, with a capacity of 5,300 cubic ft, motors, plant air, scales and loadout bin. This equipment is vented to baghouse under District Permit C015106*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the properly functioning baghouse under District Permit C015106.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
8. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**c. C015088 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
  6. This baghouse shall discharge no more than 0.03 pounds per hour of PM<sub>10</sub> at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
  8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
  9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**d. C015089– BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test),

and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol.



The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**e. C015090 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are

observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
  6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
  8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
  9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
  10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45)

days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**f. C015091 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.

[District Rule 204; 40 CFR 60.1350]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM<sub>10</sub> at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**g. C015092 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland

Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5L, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated

until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.

[District Rules 204, 1303, 1304 and 1305]

**h. C015093 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]



**i. C015094 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]

6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5L, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**j. C015095 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission

compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rule 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5L, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**k. C015096 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

## **I. C015097 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**m. C015098 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.



[District Rule 204]

2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]

9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**n. C015099 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.

[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.

[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  

[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  

[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  

[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  

[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  

[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests.

Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.

[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).

[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.

[District Rules 204, 1303, 1304 and 1305]

## **o. C015100 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40

CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific opacity monitoring plan;
- b. Monthly reading of baghouse pressure drop, date and value;
- c. Bags and bag suspension system inspection (quarterly);
- d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
- e. Date and nature of any system repairs.

[District Rule 204; 40 CFR 60.1350]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf

of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**p. C015101 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;

- b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**q. C015102 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are



observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
  6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
  8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
  9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5L, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
  10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the

compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**r. C015112 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed

- for six consecutive months.
- e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).

[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.

[District Rules 204, 1303, 1304 and 1305]

**s. C015103 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 7.5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.

[District Rule 204; 40 CFR 60.1350]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been

permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.

[District Rules 204, 1303, 1304 and 1305]

**t. C015104 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 862.5 sq.ft., air flow is 3,450 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 15 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - f. A site-specific opacity monitoring plan;
  - g. Monthly reading of baghouse pressure drop, date and value;
  - h. Bags and bag suspension system inspection (quarterly);
  - i. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - j. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.07 pounds per hour of PM<sub>10</sub> at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.07 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**u. C015105 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 475 sq.ft., air flow is 1,900 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 10 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]



6. This baghouse shall discharge no more than 0.04 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 51, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.04 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

v. **C015106 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 525 sq.ft., air flow is 2,100 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 10 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System and Silo permitted under District Permits B015087 and T015129.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System and Silo permitted under District Permits B015087 and T015129.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.04 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above

description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rule 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.04 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**w. C015107 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**x. C015108 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 375 sq.ft., air flow is 1,500 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

[District Rule 204]

8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**y. C015109 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 316.7 sq.ft., air flow is 1,900 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 7.5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those

recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.04 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).



[District Rule 204]

9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5L, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.04 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**z. C015110 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 537.5 sq.ft., air flow is 2,150 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 7.5 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.03 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in

accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**aa. C015111 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 316.7 sq.ft., air flow is 1,900 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 8 hp. Exhaust temperature is 110 F.*

*Unit serves Limestone Feed System permitted under District Permit B015087.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Limestone Feed System permitted under District Permit B015087.  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.04 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that

baghouse stack emissions do not exceed 0.04 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.

[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

## ***E) GROUP #3A – FINISH MILL #1***

### ***a. B005192 – FINISH MILL (KM 1)***

*EQUIPMENT DESCRIPTION: A finish grinding system with the following equipment (as shown on diagram 9948-F-210):*

5.0	hp	Discharge Airslide Fan
10.0	hp	Elevator Airslide Fan
15.0	hp	SKS Rejects Airslide Fan
7.5	hp	SKS Baghouse V
7.5	hp	Product Airslide Fan #1
0.1	hp	Cement Cooler Bypass Diverter Gate
801.2	hp	SKS Separator (and related misc)
20.0	hp	Feed Belt Conveyor
0.3	hp	Feed Nuisance Baghouse
50.0	hp	Feed Nuisance Baghouse Fan
0.3	hp	Sweep Baghouse
3.0	hp	Sweep Baghouse Rotary Airlock

200.0	hp	Sweep Fan
0.5	hp	Sweep Fan Damper
10.0	hp	Sweep Baghouse Hopper Screw Conveyor
5.0	hp	Sweep Baghouse Transport Screw Conveyor
0.3	hp	SKS Baghouse
15.0	hp	SKS Baghouse Rotary Airlocks (2, 7.5 hp each)
800.0	hp	SKS Separator Fan
0.5	hp	SKS Separator Fan Damper
50.0	hp	Cement Bag Filter Fan
159.3	hp	Cement Cooler (and related misc)
151.0	hp	Bucket Elevator (and related misc)
8185.3	hp	Finish Mill #1 – KM1 (and related misc)
0.1	hp	Ball Traps
10.0	hp	Ball Trap Blower
0.3	hp	SKS Rejects Flowmeter
2.8	hp	Grinding Aid System (and related misc)
77.7	hp	Floating Bearing Lube Oil System (and related misc)
77.7	hp	Fixed Bearing Lube Oil System (and related misc)
43.9	hp	MAAG Drive Lube System
3.5	hp	Motor Bearing Lube System
1.6	hp	Spray Water System
201.3	hp	Plant Air Compressor/Air Dryer
10.4	hp	Clinker Weighfeeder
1.0	hp	Clinker Weighfeeder Cleanup Drag Conveyor
3.4	hp	Gypsum Weighfeeder (and related misc)
1.0	hp	Gypsum Weighfeeder Cleanup Conveyor
1.0	hp	Feed Nuisance Baghouse Rotary Valve
10932.5	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
  
2. This equipment shall not be operated without the concurrent operation of properly maintained air pollution control equipment covered by valid District permits, as follows: Finish Mill Sweep Dust Collector (C005196), Finish Mill Separator Dust Collector (C005195), Product Nuisance Dust Collector (C008566), and Feed Belt Dust Collector (C005193).  
[District Rule 204]
  
3. This equipment shall not be operated unless the following areas are stabilized with asphalt, concrete or asphaltic concrete sufficient to eliminate dust emissions from soil erosion: ~50,000 sq. ft. of employee parking lot northeast of the River Plant entrance; ~12,000 sq. ft. of access beneath and around the River Plant Truck Access Platform; ~5,000 sq. ft. of parking lot east of the River Plant main office building; ~15,000 sq. ft. of parking and access north of the Quarry Control Room; ~35,000 sq. ft. of access and operations area

west of the Quarry maintenance building; ~60,000 sq. ft. of access and operations area south and east of the Quarry maintenance building; ~20,000 sq. ft. of access and operations area north of the K2 baghouse; ~7,000 sq. ft. of access around K2 pier six; ~10,000 sq. ft. of access and operations area around the Quarry Therminol Building; and ~3,000 square feet of access and operations area south of the K2 Preheater dust collectors.

[District Rule 204]

**b. C005193 - BAGHOUSE (KBH 23)**

*EQUIPMENT DESCRIPTION: Product Nuisance Dust Collector, flow rate of 10,000 acfm, exhaust temperature of 100 deg F. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined. Fan motor is rated at 50 hp. Emissions are estimated to be 0.010 gr/dscf.*

*Serves KFM1 permitted under B005192*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (weekly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63

Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.80 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf of TSP at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[Districts Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.

**c. C005194 - BAGHOUSE (KBH20)**

*EQUIPMENT DESCRIPTION: A MK V pulse jet type baghouse with 144 cloth bags, measuring 6.125" diameter x 150 long each. Surface area is 1,703 sq ft, air flow is 5000 acfm, exhaust temperature of 100 deg F, Air-to-Cloth ratio is 2.94. Fan motor is rated at 50 hp. Emissions are estimated to be 0.010 gr/dscf.*

*Serves the Feed Belt for Finish Mill #1 permitted under B005194.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of



the following information, which shall be provided to District personnel upon request:

- a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (weekly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. This baghouse shall discharge no more than 0.40 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf of TSP at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
  8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.

**d. C005195 - BAGHOUSE (KBH 22)**

*EQUIPMENT DESCRIPTION: Amerex Model RP-14-952 06, with 1,904 polyester bags, total filter area of 43,954 sq ft, flow rate is 173,000 acfm, exhaust temperature is 176 deg F. Fan motor is rated at 800 hp. Emissions estimated to be 0.010 gr/dscf.*

*Serves Finish Mill #1 (KM1) permitted under B005192*

*Facility has specified that the normal operating range for pressure differential is between 2 and 9 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Quarterly inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 12.12 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf of TSP at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
9. The pollutant-specific emission unit (B005192), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 2 and 9 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**e. C005196 - BAGHOUSE (KBH 21)**

*EQUIPMENT DESCRIPTION: Finish Mill #1 (KFM1) Sweep Dust Collector, pulse jet type, Manufactured by Amerex, model RP-14-510 D6, with 510 nomex bags, measuring 6" X 14' each, total filtration area of 11,773 sq ft, airflow of 45,000 acfm with an exhaust temperature of 221 deg F. Emissions are estimated at 0.010 gr/dscf. Fan motor is rated at 200 hp.*

*This unit serves Finish Mill KM1 permitted under B005192*

*Facility has specified that the normal operating range for pressure differential is between 3 and 7 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;

- c. Quarterly inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test).  
The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 2.95 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf of TSP at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
9. The pollutant-specific emission unit (B005192), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 3 and 7 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
- a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.
- [40 CFR 64.7(d)]

## ***F) GROUP #3B – FINISH MILLS (#7, #8, #9, #10) & CEMENT STORAGE***

### **a. B000045 – FINISH MILL (KFM7)**

*EQUIPMENT DESCRIPTION: Control: C000046 (KBH7) 155 hp.*

<i>1.0 hp</i>	<i>Belt Feeders, 2 (KWF7C and KWF7GS)</i>
<i>1000.0 hp</i>	<i>Finish Mill, KFM7</i>
<i>50.0 hp</i>	<i>Elevator – KE7</i>
<i>125.0 hp</i>	<i>Air Separator – KAS7</i>
<hr/>	
<i>1176.0 hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000046.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

### **b. C000046 – BAGHOUSE (KBH 7)**

*EQUIPMENT DESCRIPTION: SWPM Mk III pulse jet type baghouse having one common plenum with 364 polyester bags, each measuring 6" diameter x 118" long. Total filtration area is 9504 sq ft, air flow is 25,000 cfm. Air to Cloth Ratio is 2.5:1. Fan hp is 155 hp.*

*This unit serves Finish Mill No. 7 (B000045).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 7.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those

recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall operate concurrently with Finish Mill No. 7 under District Permit B000045.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - c. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.  
[District Rule 204]
2. The o/o shall maintain a record of repairs and maintenance on this equipment and submit it

to the District on request. The record shall be retained for a minimum period of five years.  
[District Rules 204 and 1203]

3. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**c. B000047 – FINISH MILL (KFM8)**

*EQUIPMENT DESCRIPTION: Control: C000048 (KBH8) 60 hp.*

1.0	hp	Belt Feeders, 2 (KWF8C and KWF8GS)
1000.0	hp	Finish Mill, KFM8
50.0	hp	Elevator – KE8
125.0	hp	Air Separator – KAS8
<hr/>		
1176.0	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000048.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**d. C000048 – BAGHOUSE (KBH 8)**

*EQUIPMENT DESCRIPTION: SWPC Mk V, pulse jet type baghouse with 288 cloth bags, each measuring 6" diameter x 156" long. Total filter area is 5,656 sq ft, air flow is 16,000 cfm, Air to Cloth ratio is 2.72. Fan motor is rated at 60 hp.*

*This unit serves Finish Mill No. 8 permitted under B000047*

*Facility has specified that the normal operating range for pressure differential is between 2 and 7.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.

[District Rule 204]

2. This baghouse shall be operated concurrently with Finish Mill No. 8 (B000047).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

e. **B000049 – FINISH MILL (KE 9)**

*EQUIPMENT DESCRIPTION: Control: C000050 (KBH9) 65 hp*

<i>1.0 hp</i>	<i>Belt Feeders, 2 (KWF9C and KWF9GS)</i>
<i>1000.0 hp</i>	<i>Finish Mill, KFM9</i>
<i>50.0 hp</i>	<i>Elevator – KE9</i>
<i>125.0 hp</i>	<i>Air Separator – KAS9</i>



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1176.0 hp Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000050.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**f. C000050 – BAGHOUSE (KBH 9)**

*EQUIPMENT DESCRIPTION: SWPC MK III, reverse air type baghouse with 312 polyester bags, each measuring 6" diameter x 156" long. Cloth area is 5,656 sq ft, air flow is 16,000 cfm. Air to Cloth ratio is 2.72. Fan motor is rated at 65 hp.*

*This unit serves Finish Mill No. 9 permitted under B000049*

*Facility has specified that the normal operating range for pressure differential is between 4 and 10 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill No. 9 (B000049).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed

- for six consecutive months.
- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**g. B000051 – FINISH MILL (KFM10)**

*EQUIPMENT DESCRIPTION: Control: C000052 (KBH10) 100 hp*

<i>1.0 hp</i>	<i>Belt Feeders, 2 (KWF10C and KWF10GS)</i>
<i>1000.0 hp</i>	<i>Finish Mill, KFM10</i>
<i>50.0 hp</i>	<i>Elevator – KE10</i>
<i>125.0 hp</i>	<i>Air Separator – KAS10</i>
<i>1176.0 hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000052.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**h. C000052 – BAGHOUSE (KBH 10)**

*EQUIPMENT DESCRIPTION: SWPC MK III, reverse air type baghouse with 312 polyester bags, each measuring 6" diameter x 156" long. Cloth area is 5,656 sq ft, air flow is 18,000 cfm: Air to Cloth ratio is 2.06:1. Fan motor is rated at 100 hp.*

*This unit serves Finish Mill No. 10 permitted under B000051*

*Facility has specified that the normal operating range for pressure differential is between 4 and 10 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill No. 10 (B000051).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
 [District Rule 204]

**i. B000059 – CEMENT TRANSFER TO STORAGE (DEPT. 60)**

*EQUIPMENT DESCRIPTION: Controls: C000060 (LBH1) 25 hp; C000061 (LBH2) 25 hp; C000062 (LBH3) 25 hp; C000063 (LBH4) 50 hp; C000064 (LBH5) 3 hp; C000065 (LBH6) 40 hp; C008247 (LBH8) 15 hp; C001569 (LBH9) 7.5 hp; C008246 (LBH10) 15 hp; C008565 (BHA210012) 7.5 hp; C008566 (BHA20) 50 hp; and C015123 ( )*

0	hp	<i>Cement Pump System (from Finish Mills 1, 11, 12) – hp ratings are included in mill permits</i>
78	hp	<i>Plant Air Compressor/Air Dryer – 821-01-323-03 and 821-02-454-03</i>
5	hp	<i>Blower - Airslide fluidizing – 631-26-321-03</i>
7.5	hp	<i>Blower - Airslide fluidizing – 631-25-321-03</i>
2	hp	<i>Blower - Airslide fluidizing – 631-24-321-03</i>
5	hp	<i>Blower - Airslide fluidizing – 631-36-321-03</i>
5	hp	<i>Blower - Airslide fluidizing – 631-37-321-03</i>
5	hp	<i>Blower - Airslide fluidizing – 631-38-321-03</i>
0	hp	<i>Cyclone – 631-04-426-03</i>
3	hp	<i>Blower - Airslide fluidizing – From Baghouse C015123 ( ) – 631-10-321-03</i>
2	hp	<i>Rotary Valve – From Baghouse C015123 ( ) – 631-11-391-03</i>
5	hp	<i>Screw Conveyor – From Baghouse C015123 ( ) – 631-13-411-03</i>
49.0	hp	<i>Air Slide System</i>
1085.0	hp	<i>Cement Pump System (from Finish Mills 7, 8, 9, 10) 4 @ 200, 3 @ 75, 1 @ 60 hp</i>
15.0	hp	<i>Feed System Group 1 Silos: MSC12 Screw Conveyor</i>
10.0	hp	<i>Transfer System from Silo 3: 4B Screw Conveyors LSC11 &amp; LSC12 @ 5 hp ea.</i>
15.0	hp	<i>Feed System Group 2 Silos: LRS1 Rot Screen</i>
130.0	hp	<i>Silo Fill Screw Conveyor</i>
20.0	hp	<i>Feed System Group 3 Silos: LRS2 Rot Screen</i>
100.0	hp	<i>LSC5 Screw Conveyor</i>
15.0	hp	<i>Feed System Group 4 Silos: LRS3 Rot Screen</i>
15.0	hp	<i>LSC4 Rot Screen</i>
200.0	hp	<i>Silo Fill System</i>
1771.5	hp	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
 [District Rule 204]
2. This shall not be operated unless it is vented to functioning air pollution control equipment

covered by valid District permits: C000060, C000061, C000062, C000063, C000064, C000065, C001569, C008246, C008247, C008565, C008566 and C015123.  
[District Rule 204]

3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**j. C000060 – BAGHOUSE (LBH 1)**

*EQUIPMENT DESCRIPTION: Baghouse, Norblo, model D99-M101, 2 Compartments, with 156 polyester bags, measuring 6" dia x 164" each, total filtration area of 3,015 sq ft, flow rate of 6,000 cfm. Fan is rated at 25 hp*

*Serving Cement to Group 2 Silos System permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Cement to Group 2 Silos System (B000059).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**k. C000061 – BAGHOUSE (LBH 2)**

*EQUIPMENT DESCRIPTION: Mikropul, pulse jet type, model 210-S-10 TR, with 210 polyester bags, measuring 4 5/8 X 12'5", total filter area is 2,500 sq ft, flow rate is 10,000 acfm, exit temperature is 140 degrees F. American Blower type E, size 450 fan is rated at 25 hp.*

*Serving Cement to Group 4 Silos System permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 1 and 4 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Cement to Group 4 Silos System (B000059).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed

- for six consecutive months.
- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.01 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This baghouse shall be fitted with an airlock on each material discharge port.  
[District Rule 204]
9. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204 and 1302]

## **I. C000062 – BAGHOUSE (LBH 3)**

*EQUIPMENT DESCRIPTION: Mikropul, pulse jet type, model 210-S-10 TR, with 210 polyester bags, measuring 4 5/8 X 12'5", total filter area is 2,500 sq ft, flow rate is 10,000 acfm, exit temperature is 140 degrees F. American Blower type E, size 450 fan is rated at 25 hp.*

*Serving Cement to Group 4 Silos System permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 1 and 4 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Cement to Group 4 Silos System

(B000059).  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.01 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This baghouse shall be fitted with an airlock on each material discharge port.  
[District Rule 204]
9. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204 and 1302]

**m. C000063 – BAGHOUSE (LBH 4)**



*EQUIPMENT DESCRIPTION: a Norblo, reverse air type baghouse, with 320 bags, measuring 6.25" dia X 96" long each, 6 oz. singed duo-density polyester felt bags, total filtration area of 2880 sq ft, airflow of 13,200 acfm, air-to-cloth ratio of 4.6:1. Exhaust temperature is greater than ambient temperature, approximately 140 deg F. Located on top of Silo 13. Fan is rated at 50 hp. Emissions are estimated to be 0.01 gr/dscf.*

*Serving Cement to Group III Silos System permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 2 and 7 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall be operated concurrently with the Group III Cement Silos (B000059).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.98 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf of TSP at the operating conditions given in the above

description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**n. C000065 – BAGHOUSE (LBH 6)**

*EQUIPMENT DESCRIPTION: Baghouse, Norblo model D99-M101, reverse air type, with 240 Bags, measuring 6" dia X 164" each, total filter area is 4,524 sq ft, flow rate is 12,000 cfm. Fan is rated at 40 hp.*

*Serving Group 2 Cement Silos permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 4 and 7 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall be operated concurrently with Cement Silo 2 Cement Silos (B000059).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland

Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**o. C001569 – BAGHOUSE (LBH 9)**

*EQUIPMENT DESCRIPTION: Dust Collector, General Industrial model Series 20, pulse jet type, with 36 polyester bags, measuring 5 7/8" X 123" each. Filter area is 542 sq ft. air flow is 2450 acfm, at above ambient temperatures (140 deg F), air to cloth ratio is 4.5:1. Induced draft fan motor rated at 7.5 hp. Emissions estimated to 0.01 gr/dscf.*

*Serves Pneumatic Cement Conveyor permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall be operated concurrently with Cement Silo 25 covered in District permit B000059.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are

observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
- 4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
- 5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
- 6. This baghouse shall discharge no more than 0.18 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf of TSP at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
- 7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**p. C015123 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 4,182.2 sq. ft., air flow is 17,147 ACFM. Air to Cloth ratio is 4.1:1 (cfm/sf). Fan motor is rated at 40 hp. Exhaust temperature is 60 F.*

*Unit serves Cyclone under District Permit B000059.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

- 1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
- 2. This baghouse shall be operated concurrently with Cyclone under District Permit

B000059.

[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.07 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be

performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.03 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]

**q. T002049 – SILO - GROUP I LIME AND CEMENT STORAGE**

*EQUIPMENT DESCRIPTION: Control: C008246 (LBH10), and C008247 (LBH8), under B000059*

254800.0	gallons	Silo: 1 Lime – 34,064 CF
254800.0	gallons	Silo: 2 Lime – 34,064 CF
254800.0	gallons	Silo: 3 Cement – 34,064 CF
254800.0	gallons	Silo: 4 Cement – 34,064 CF
282745.0	gallons	Silo: 5 Cement – 37,800 CF
282745.0	gallons	Silo: 6 Cement – 37,800 CF
<u>1584690.0</u>	<u>gallons</u>	<u>Total</u>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. These silos shall not be filled unless they are vented to the functioning air pollution control equipment covered by valid District permits C008246 (Silo 6), and C008247 (Silo 5)..  
[District Rule 204]

**r. C008246 – BAGHOUSE (LBH 10)**

*EQUIPMENT DESCRIPTION: Mikropul, model 81S-10-20 B, pulse jet type, with 56 polyester bags, measuring 5 3/4" X 12'5" each, total filter area is 954 sq ft, flow rate is 4710 acfm at*

*ambient temperature, air to cloth ratio is 4.9:1. Fan motor is rated at 15 hp. Estimated emissions are 0.01 gr PM-10/dscf.*

*Serving System permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be used concurrently with the Group I Cement Silo 6 under District Permit B000059.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.40 lb/hour at a maximum concentration of 0.01 grains/dscf of PM10 at the operating conditions described above. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rules 204 of 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**s. C008247 – BAGHOUSE (LBH8)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120WSTS-49 ARR (III), pulse jet type baghouse, with 48 polyester bags, measuring 4 5/8" X 124" each, total filter area of 750 sq ft, flow rate is 4000 acfm, flow velocity is 16 ft/second at ambient temperatures, air to cloth ratio is 5.3:1, stack height of 42 ft, diameter of 2.3 ft. Fan motor is rated at 15 hp. Estimated emissions rate is 0.01 gr PM-10/dscf.*

*Serving process permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be used to control emissions from Group 1 Cement Silo 5 (B000059).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.



[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.34 lb/hour at a maximum concentration of 0.01 grains/dscf of PM10 at the operating conditions described above. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**t. T002050 – SILO - GROUP II CEMENT STORAGE**

*EQUIPMENT DESCRIPTION: Supplied by Finish Mills. Control: C000064 (LBH5) under B000059; C000065 (LBH6) under B000059:*

269100.0	gallons	Silo 7:	35,976 CF
269100.0	gallons	Silo 8:	35,976 CF
653140.0	gallons	Silo 9:	87,318 CF
653140.0	gallons	Silo 10:	87,318 CF
653140.0	gallons	Silo 11:	87,318 CF
653140.0	gallons	Silo 12:	87,318 CF
70310.0	gallons	Silo A:	9,400 CF
70310.0	gallons	Silo B:	9,400 CF
70310.0	gallons	Silo E:	9,400 CF
70310.0	gallons	Silo F:	9,400 CF
34320000.0	gallons	Total	

1. All 10 silos are served by three dust collectors. Therefore, these silos shall not be filled unless vented to that functional air pollution control equipment covered by valid District permits C000065 (LBH6), C001481(NBH1), and/or C001483 (NBH2).  
[District Rule 204]

**u. T002051 – SILO - GROUP III CEMENT STORAGE**

*EQUIPMENT DESCRIPTION: Supplied by Finish Mills. Control: C000063 (LBH4), C015124 and C015125.*

555795.0	gallons	Silo 13:	74,304 CF
582695.0	gallons	Silo 14:	77,914 CF
609740.0	gallons	Silo 15:	81,516 CF
609830.0	gallons	Silo 16:	81,528 CF
582700.0	gallons	Silo 17:	77,914 CF
555700.0	gallons	Silo 18:	74,304 CF
34320000.0	gallons	Total	

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
  
2. All six silos are served by one dust collectors. Therefore, these silos shall not be filled unless vented to that functional air pollution control equipment covered by valid District permits C000063, C015124 and C015125.  
[District Rule 204]

**v. T002052 – SILO - GROUP IV CEMENT STORAGE**

*EQUIPMENT DESCRIPTION: Supplied by Finish Mills. Control: All under B000059; C000061 (LBH2) serves all silos\*; C000062 (LBH3) serves all silos\*; C001569 (LBH9) serves silo 25, C008565 & C008566. \*NOTE: If fill line 60-RS-1 is used, Control C000061 shall be operating. If fill line 60-RS-2 is used, Control C000062 shall be operating.*

442030.0	gallons	Silo 19:	59,095 CF
448465.0	gallons	Silo 20:	59,095 CF
468055.0	gallons	Silo 21:	62,574 CF
467985.0	gallons	Silo 22:	62,565 CF
474260.0	gallons	Silo 23:	63,404 CF
467380.0	gallons	Silo 24:	62,484 CF
467320.0	gallons	Silo 25 (Lime):	62,476CF
474260.0	gallons	Silo 26:	63,404 CF
468055.0	gallons	Silo 27:	62,574 CF
468055.0	gallons	Silo 28:	62,574 CF
448480.0	gallons	Silo 29:	59,957 CF
442115.0	gallons	Silo 30:	59,106 CF
5536460.0	gallons	Total	

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. Silo 25 shall not be filled unless vented to that functional air pollution control equipment covered by valid District permit C001569. The other silos shall be vented to the controls listed above under \*NOTE.  
[District Rule 204]

**w. C015124 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 815 sq. ft., air flow is 4,100 ACFM. Air to Cloth ratio is 4:1 (cfm/sf). Fan motor is rated at 10 hp. Exhaust temperature is 167 F.*

*Unit serves Cement Silos 13, 14 and 15 under District Permit T002051.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Cement Silos 13, 14 and 15 under District Permit T002051.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345]
6. This baghouse shall discharge no more than 0.07 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.07 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**x. C015125 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 1,227.5 sq. ft., air flow is 4,910 ACFM. Air to Cloth ratio is 4:1 (cfm/sf). Fan motor is rated at 15 hp. Exhaust temperature is 167 F.*

*Unit serves Cement Silos 16, 17 and 18 under District Permit T002051.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Cement Silos 16, 17 and 18 under District Permit T002051.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63

Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.09 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.09 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated

until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.

[District Rules 204, 1303, 1304 and 1305]

y. **C008565 – BAGHOUSE (LBH 11)**

*EQUIPMENT DESCRIPTION:*

*General Industrial, model Series 20 baghouse, pulse jet type, with 36 polyester bags, measuring 5 7/8" X 123" each, total filtration area is 542 sq ft, flow rate of 2450 acfm, air to cloth ratio is 4.5:1. Fan motor rated at 7.5 hp. Estimated emissions are 0.01 gr/dscf. This unit exhausts at greater than ambient (140 deg F).*

*Located on top of silo 23 and controls the Group IV silos permitted under B000059*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Group IV Cement Silos (T002052).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.18 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf of TSP at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**z. C008566 – BAGHOUSE (LBH7)**

*EQUIPMENT DESCRIPTION:*

*BHA pulse jet type baghouse, with 272 16 oz singed duo-density polyester felt bags, measuring 5.75" dia X 120.5" L each, Total filter area is 4112 sq ft, flow rate is 20,000 acfm, air to cloth ratio is 4.86:1, Fan motor is rated at 50 hp. Exhausts at greater than ambient (140 deg F). Estimated emissions are 0.01 gr/dscf. The specific location of this unit TBD.*

*This unit serves Finish Mill KM1 permitted under B005192*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill KM1 (B005192).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-



annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
- 4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
- 5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
- 6. This baghouse shall discharge no more than 1.48 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf of TSP at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
- 7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

## ***G) GROUP #3C – FINISH GRINDING (FM #11)***

### **a. B008192 – FINISH MILL (KM 1)**

*EQUIPMENT DESCRIPTION: Controls: C000054 (KBH13) 125 hp; C000055 (KBH15) 40 hp; C000056 (KBH11) 25 hp; C000057 (JBH14) 7.5 hp; C000058 (JBH15) 3 hp; C002011 (KBH14 -product collector); C002012 (KBH12) 75 hp.*

*The fee base is determined by the basic equipment horsepower which includes the 700 hp associated with the pollution control equipment, KBH14 - KBH14F (C002011) which is deemed an element of the product recovery system.*

- 0.0 hp Clinker Bin - JGH11 (119,680 gallons)
- 0.0 hp Gypsum Bin - JGH11 (19,942 gallons)
- 0.0 hp Fringe Bin - JFH11 (19,942 gallons)
- 2.0 hp Vibrating bin bottom (vibra screw) - Gypsum bin - JGH11VBJ
- 2.0 hp Vibratory feeder (Eriez) - Gypsum – ABDN
- 4.0 hp Vibratory feeder (Eriez) - Clinker bin – ABDN

2.0	hp	Vibratory feeder (Eriez) - Fringe bin - KWF11VF
0.5	hp	Weightbelt feeder (Autoweigh) - Gypsum - KWF11G
0.5	hp	Scavenger screw conveyor (under 36BF-17) - KWF11GDC
3.0	hp	Weightbelt feeder (Autoweigh) - Clinker - KWF11C
0.5	hp	Scavenger screw conveyor (under 36BF-18) - KWF11CDC
0.5	hp	Weightbelt feeder (Autoweigh) - Fringe - KWF11F
0.5	hp	Scavenger screw conveyor (under 36BF-19) - KWF11FSC
25.0	hp	Bucket elevator - Alternate mill feed - KE13
5.0	hp	Water spray pump (mill cooling water) - JP8
4500.0	hp	Ball mill No. 11, 13' x 45' A/C COMPEB - KFM11
3.0	hp	Trunnion lube pump - 3 hp - run one at a time - KFM11LP2
0.0	hp	Trunnion lube pump - 3 hp - KFM11P1
3.0	hp	Trunnion lube pump - 3 hp - run one at a time - KFM11P4
0.0	hp	Trunnion lube pump - 3 hp - KFM11P3
1.5	hp	Pinion and gear lube pump - KFM11P5
7.5	hp	Air Compressor - For Airflex mill clutch - KFM11DC
10.0	hp	Airslide blower - For KAC8 - KB10
10.0	hp	Airslide blower - For KAC6/7 and KAC14/17 - KB11
125.0	hp	Bucket elevator - Mill discharge - KE14
250.0	hp	Cement pump F-K 200MM - LP9
250.0	hp	Rotary compressor Fuller No. 350 - LC9
250.0	hp	Rotary compressor Fuller No. 350 - LC10
30.0	hp	Drag Conveyor - KDC1
20.0	hp	Drag Conveyor - KDC2
502.0	hp	Bucket Elevator - KE11
40.0	hp	Bucket Elevator - KE12
1.0	hp	Tramp iron separator (Eriez) - KRP11MS
800.0	hp	Roller press - Koppert - KRP11
1.0	hp	Feeder for roll press
3.0	hp	Hydraulic system for roll press, 2 @ 1.5 hp
7.5	hp	Cooling system rolls & bearings - Roll press
0.3	hp	Bearing lube pump
0.3	hp	Coupling lube pump
10.0	hp	Belt conveyor - KBC1
10.0	hp	Belt conveyor - KBC2
350.0	hp	Air separator FLS Sepax model - KAS11
0.1	hp	Oil cooler for Sepax
7.5	hp	Blower - Airslide fluidizing - for KAC9 - KB12
25.0	hp	Blower - Airslide fluidizing - for KAC10-11-12 - KB13
15.0	hp	Blower - Airslide fluidizing - For KAC13 - KB14
0.0	hp	Dust collector - No. 11 finish mill product - KBH14
700.0	hp	Fan - Exhauster 11.F.M. product collector - KBH14F
10.0	hp	Feeder - Sepax rejects recycle to roll press
0.5	hp	Airlock - Rotary Sepax dropouts - KAS11
20.0	hp	Screw CNV (KE12 to KRP11) - KRP11SC
0.2	hp	Sampler - Gustafson Model D - KFM11SC
8008.8	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. All of the controls listed above shall be maintained in operable condition and operating as per the schedule below:  
Finish Mill Operations - Permit Numbers, which must be operating  
Mill Running - C000054; C000055; C000056; C002011; C002012  
Mill & Roll Press Running - C000054; C000055; C002011; C002012  
Filling Clinker Bin - C000057  
Filling Gypsum Bin - C000058  
Filling Fringe Bin and/or the Alternate Bin Fill System via Elevator - C000056  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**b. C000054 – BAGHOUSE (KBH 13)**

*EQUIPMENT DESCRIPTION: Baghouse, ICA pulse jet type, model 625-7, with 280 polyester bags, each measuring 6" X 122.5", total filtration area is 4,375 sq ft, air flow of 25,000 cfm. Fan motor is rated at 125 hp.*

*Serving Finish Mill No. 11 permitted under B000053*

*Facility has specified that the normal operating range for pressure differential is between 2 and 7 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill #11 (B000053).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;

- b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**c. C000055 – BAGHOUSE (KBH 15)**

*EQUIPMENT DESCRIPTION: Baghouse, ICA pulse jet type, model 625-2, 80 polyester filters, 5 7/8" X 123" long, total filtration area is 1,250 sq ft, flow rate is 7,000 cfm. Fan motor rated at 40 hp.*

*Serving Finish Mill No. 11 permitted under B000053*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill #11 (B000053).  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**d. C000056 – BAGHOUSE (KBH 11)**

*EQUIPMENT DESCRIPTION: Baghouse, ICA pulse jet type, model 625-2 (III), with 80 polyester Filter Tubes, each measuring 5 7/8" X 123", total filtration area of 1,250 sq ft, air flow is 6,600 cfm, fan is rated at 25 hp.*

*Serving Clinker Feed System, Elevators permitted under B000053*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which

produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Clinker Feed System, Elevators (B000053).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

e. **C000057 – BAGHOUSE (JBH 14)**

*EQUIPMENT DESCRIPTION: Baghouse, Mikropul Pulse Jet type, with 92 bags, each measuring 4 3/4" x 148 1/2' L, total cloth area is 424 ft<sup>2</sup>; air flow is 1500 cfm. Air to cloth ratio is tbd. Fan motor is rated at 7.5 hp.*

*Unit serves Clinker Feed System permitted under B000053*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Clinker Feed System Bins (B000053).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**f. C000058 – BAGHOUSE (JBH 15)**

*EQUIPMENT DESCRIPTION: Baghouse, ICA Model 5-9 Pulse Jet type, with 9 Filter Tubes, total cloth area is 62 ft<sup>2</sup>; air flow is 400 cfm. Fan motor is rated at 3 hp.*

*Unit serves Gypsum Feed System permitted under B000053*

*Facility has specified that the normal operating range for pressure differential is between 1 and 4.5 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Gypsum Feed System Bins (B000053).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]



7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**g. C002011 – BAGHOUSE (KBH 14)**

*EQUIPMENT DESCRIPTION: Mikropul pulse jet type baghouse, Model 680 K-12-30TR 28, with 2040 polyester bags, each measuring 4 5/8" X 146" each, total filtration area of 28,824 sq ft, air flow of 115,000 cfm. Air to cloth ratio is 3.98:1. Fan motor is rated at 700 hp.*

*Serving Finish Mill KFM-11 permitted under B000053*

*Facility has specified that the normal operating range for pressure differential is between 4 and 9 inches water column*

<u>700.0</u>	<u>hp</u>	Buffalo Forge model 1460-L-25 ID, @ 700 hp
700.0	hp	Total

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill #11 (B000053).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Annual inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This baghouse shall be fitted with an airlock on each material discharge port.  
[District Rule 204]
9. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
10. The pollutant-specific emission unit (B000053), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 4 and 9 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**h. C002012 – BAGHOUSE (KBH 12)**

*EQUIPMENT DESCRIPTION: Mikropul pulse jet type baghouse, Model 2385-12-20-TR, with 346 polyester bags, each measuring 4 5/8" X 12' 5", total filtration area of 3,364 sq ft, air flow of 20,000 acfm. Air to cloth ratio of 5.9:1. Fan motor is rated at 75 hp.*

*Serves Finish Mill KFM 11 permitted under B000053*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

<u>75.0</u>	<i>hp</i>	<i>Buffalo Forge model 600 BL @ 75 hp</i>
75.0	<i>hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill #11 (B000053).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This baghouse shall be fitted with an airlock on each material discharge port.  
[District Rule 204]

## **H) GROUP #3D – FINISH GRINDING (FM #12)**

### **a. B001093 – FINISH MILL - (KFM 12)**

*EQUIPMENT DESCRIPTION: Control: C001285 (KBH17); C001286 (KBH18); C001279 (KBH16); C008660 (KBH 19)*

5.0	hp	Bin Vibrator - JTS2VB1
8.0	hp	Weigh Belt Feeders (2 @ 4 hp ea.) - KWF12C & G
25.0	hp	Belt Conveyor (15 & 10 hp) - KBC3 & 4
12.5	hp	Screw Conveyor, Dust Return System - KBH1BSC
15.0	hp	Bucket Elevator to Finish Mill - KE15
100.0	hp	Bucket Elevator from Finish Mill - KE16
4523.5	hp	Finish Mill No. 12 Ball -- KFM12
11.0	hp	Airslide blower - KAC18
0.0	hp	Air Separator - KAS12:
275.0	hp	Drive
300.0	hp	Fan
2.0	hp	Lubricator
50.7	hp	Cement Cooler - 42-CCC-2
550.0	hp	Pneumatic Conveyor - 42P11
2000.0	hp	Roll Press
250.0	hp	Cement Pump LP11
700.0	hp	Fan-exhaust KBH 19
0.0	hp	Product Collector
8827.7	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment (C001285, C001286, and C001279).  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

### **b. C001279 – BAGHOUSE (KBH 16)**

*EQUIPMENT DESCRIPTION: Baghouse, FM-12, Flex Kleen model 120 WRTC-48 (III), pulse jet type, with 48 polyester filters, measuring 6" X 120.5" each, total filtration area of 734 sq ft, air flow of 3,500 cfm. Fan motor rated at 25 hp. Emissions estimated at 0.02 gr/acf.*

*Unit Serves (KfM - 12) permitted under B001093*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill #12 (B001093).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that

assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**c. C001285 – BAGHOUSE (KBH 17)**

*EQUIPMENT DESCRIPTION: Baghouse, FM-12, Flex Kleen model 120 WRTC-48 (III), pulse jet type, with 48 polyester filters, measuring 6" X 120.5" each, total filter area of 734 sq ft, air flow is 4,00 cfm. Air to cloth ratio is 5.4 to 1. Fan motor rated at 25 hp. Emissions estimated to be 0.02 gr/acf.*

*Unit Serves (KFM - 12) permitted under B001093*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill #12 (B001093).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]

6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV. [District Rule 204]

**d. C001286 – BAGHOUSE (KBH 18)**

*EQUIPMENT DESCRIPTION: Dust Collector, MikroPul pulse jet type, model 192-5-12-30 TRII, with 480 polyester felted polyester bags, measuring 4.5" dia x 10' each. Total filtration area is 8,110 sq ft, flow rate of 37,400 cfm. Solyvent-ventec GP165 S1A exhauster 42F34, 20. Fan motor rated at 200 hp. Emissions estimated at 0.02 gr/acf.*

*Unit Serves (KFM - 12) permitted under B001093*

*Facility has specified that the normal operating range for pressure differential is between 4 and 10 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [District Rule 204]
2. This baghouse shall be operated concurrently with Finish Mill #12 (B001093). [District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Annual inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63

Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
9. The pollutant-specific emission unit (B001093), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 4 and 10 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**e. C008660 – BAGHOUSE (KBH19)**

*EQUIPMENT DESCRIPTION: Amerex 5408, pulse jet type, model RP-12-817 DG (19X43), 129,470 acfm, with 1634- 16 oz Polyester Bags operating at 162 degrees F, measuring 19" X 43' each. Air-to-Cloth Ratio of 4.2:1. Robinson 5399 fan motor is rated at 700hp.*

*This unit serves Finish Mill #12 SKS air separator process permitted under B001093*

*Facility has specified that the normal operating range for pressure differential is between 2 and 8 inches water column.*



1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Finish Mill #12 SKS Air Separator Process under district permit B001093.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Monthly inspection of the bags and bag suspension system;
  - d. Daily baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 9.42 lb/hour of PM-10 at a maximum concentration of 0.01 grain/dscf PM-10 operating at the conditions described above. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

9. The pollutant-specific emission unit (B001093), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 2 and 8 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
- a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.
- [40 CFR 64.7(d)]

## ***I) GROUP #4 – SHIPPING***

### **a. B001683 – CEMENT, BULK LOADOUT**

*EQUIPMENT DESCRIPTION: Group 1 Silos. Control: C000068 (MBH2) 10 hp*

<i>40.0 hp</i>	<i>Screw Conveyors @ 20 hp ea (MSC1, 2)</i>
<i>25.0 hp</i>	<i>Elevator (ME1)</i>
<i>8827.7 hp</i>	<i>Total</i>

- 1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
- 2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000068.  
[District Rule 204]

### **b. C000068 – BAGHOUSE (MBH 2)**

*EQUIPMENT DESCRIPTION: Norblo model 112-AS, total filter area is 1,325 sq ft, flow rate is 2,300 cfm. Fan is rated at 10 hp.*

*Serving Cement Shipping permitted under B001683*

- 1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those

recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Cement Shipping (B001683).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**c. B001784 – TRANSFER EQUIPMENT**

*EQUIPMENT DESCRIPTION: From Cement Storage to Truck Loading. Control: C000075 (MBH6) 20 hp.*

*25.0 hp Screw Conveyor - MSC2*

25.0	hp	Elevator – ME2
10.0	hp	Rotary Screen – MRS1
60.0	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000075.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**d. C000075 – BAGHOUSE (MBH 6)**

*EQUIPMENT DESCRIPTION: Norblo model TBD, baghouse, with TBD bags, total filter area of 2944 sq ft, flow rate is 6000 cfm. Fan motor is rated at 20 hp. Emissions are estimated to be 0.02 gr/acf.*

*Serving Bulk Truck Cement Shipping permitted under B001784*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Bulk Truck Cement Shipping (B001784).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed

for six consecutive months.

- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**e. B001640 – SHIPPING – BULK CEMENT**

*EQUIPMENT DESCRIPTION: Groups I and II Silos. Control: C001684 (MBH1) 15 hp.*

*27.5 hp Screw Conveyors - MSCS4, 5, 10*

*7.5 hp Air Slide – MG2AC1*

*35.0 hp Total*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001684.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**f. C001684 – BAGHOUSE (MBH 1)**

*EQUIPMENT DESCRIPTION: Mikropul model 81S-8 TR, baghouse, with TBD bags, total filter area of 763 sq ft, flow rate is 470 cfm. Fan motor is rated at 15 hp. Emissions are estimated to be 0.02 gr/acf.*

*Serves Bulk Loadout System permitted as B001640*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Bulk Loadout System (B001640).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**g. B001480 – CEMENT WITHDRAWAL SYSTEM – NORTH  
PACKOUT**

*EQUIPMENT DESCRIPTION: Control: C001481 (NBH1) 15 hp. Silo Withdrawal Pneumatic Gravity Conveyors (Airlides), operated one at a time. Capacity: 75-ton/hr ea. - NAC1, 2, 3, 4*

15.0	hp	Aeration Blower (Aerzen), 432 cfm (Free Air), @ 4.3 psig - NSA2B1
40.0	hp	Aeration Blowers (Aerzen), @ 20 hp ea, 280 cfm (Free Air) @ 8.7 psig - NSA2B2, B5
6.0	hp	Aeration Blowers (IEN), @ 3 hp ea, 210 cfm (Free Air) @ 0.9 psig - NB7, 8
200.8	hp	Pneumatic Conveying System for Cement Transport (Fuller-Kinyon), 100 hp "M" type pump. Oil-free air-cooled compressor (IBAU) with 100 hp drive and 0.75 Cooling Fan - NP1
0.0	hp	Alleviator Cyclone - NA8
3.0	hp	Screen, Vibratory (Haver-Niagara), 1,000 x 2,000 mm Pack Bin (East), 750 ft3 – NPM2VS
264.8	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001481.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**h. C001481 – BAGHOUSE (NBH 1)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120 BUTC-16 (III), pulse jet type baghouse, with 16 polyester bags, total filter area of 245 sq ft, flow rate is 1,000 cfm. Fan motor is rated at 15.75 hp. Emissions are estimated to be 0.02 gr/acf.*

*Serves Cement Withdrawal System (North) permitted under B001480.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Cement Withdrawal System (North) (B001480).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**i. B001484 – PACKAGING SYSTEM**

*EQUIPMENT DESCRIPTION: Line "A" (West). Control: C001485 (NBH3) 60.75 hp.*

- 0.0 hp Rotary Air Locks, Packer - NPMIRF1*
- 6.0 hp Feed, Haver units in parallel @ 1.5 hp ea - NPMIRF2*
- 30.0 hp Bag Packing Machine, inline, 4 spout, Haver & Boecker type 5054-4BB, 30 hp - NPMI*
- 2.0 hp Packer Takeaway Conveyor, flat wire mesh type, 2 hp - NPMIBC1*



1.5	<i>hp</i>	<i>Belt Conveyor, flat, 1.5 hp - NPM1BC2</i>
4.5	<i>hp</i>	<i>Bag Cleaning Conveyor Station, Beumer "Torture Chamber" type, @ 3 hp, 1,000 cfm</i>
0.0	<i>hp</i>	<i>(Free Air) 19.5" W.G. Blower - NPM1CS</i>
0.8	<i>hp</i>	<i>Live Roller Conveyor - NPM1RC1</i>
1.0	<i>hp</i>	<i>Check Weight Scale Belt, Bockels - NPM1WB</i>
0.8	<i>hp</i>	<i>Live Roller Conveyor - NPM1RC2</i>
0.5	<i>hp</i>	<i>Rejector Belt Conveyor - NPM1BC3</i>
1.5	<i>hp</i>	<i>Bag Flatteners - NPM1LBF &amp; NPM1BVF</i>
0.5	<i>hp</i>	<i>Packing Conveyor - NBP1PSC</i>
17.0	<i>hp</i>	<i>Palletizer, Moellers model PLS-1 - NBP1</i>
2.0	<i>hp</i>	<i>Recycle Screw Conveyor - NPM1SC</i>
30.0	<i>hp</i>	<i>Recycle Pneumatic Conveying System, 30 hp, 365 cfm - NPM1RP</i>
0.0	<i>hp</i>	<i>(Free Air) Blower, 10.1 psig - NPM1RPB</i>
98.0	<i>hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001485.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**j. C001485 – BAGHOUSE (NBH 3)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120 WRTC-132 (III), pulse jet type baghouse, with 132 polyester bags, total filter area of 2020 sq ft, air flow of 12,000 cfm. Fan motor is rated at 60 hp. Also equipped with a 0.75hp Rotary Airlock. Emissions are estimated to be 0.02 gr/acf.*

*Serves Package System "A" permitted as B001484*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Package System “A” (B001484).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**k. B001482 – CEMENT WITHDRAWAL SYSTEM**

*EQUIPMENT DESCRIPTION: South Packout. Control: C001483 (NBH2) 15.75 hp. Silo Withdrawal Pneumatic Gravity Conveyors (Airslides), operated one at a time. Capacity: 75 ton/hr ea - NAC 5, 6, 7, 8*

- 15.0 hp Aeration Blower (Aerzen), 432 cfm (Free Air), @ 4.3 psig - NSA2B3
- 40.0 hp Aeration Blowers (Aerzen), @ 20 hp ea, 280 cfm (Free Air) @ 8.7 psig - NSA2B4, B6
- 6.0 hp Aeration Blowers (IEN), @ 3 hp ea, 210 cfm (Free Air) @ 0.9 psig – NB9, 10

200.8	hp	<i>Pneumatic Conveying System for Cement Transport (Fuller-Kinyon), 100 hp "M" type pump. Oil-free air-cooled compressor (IBAU) with 100 hp drive and 0.75 Cooling Fan – NP2</i>
0.0	hp	<i>Alleviator Cyclone – NA7</i>
3.0	hp	<i>Screen, Vibratory (Haver-Niagara), 1,000 x 2,000 mm Pack Bin (East), 750 ft<sup>3</sup> – PMIVS</i>
<hr/>		
264.8	hp	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001483.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

## **I. C001483 – BAGHOUSE (NBH 2)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120 BUTC-16 (III), pulse jet type baghouse, with 16 polyester bags, total filter area of 245 sq ft, flow rate is 1,000 cfm. Fan motor is rated at 15.75 hp. Emissions are estimated to be 0.02 gr/acf.*

*Serves Cement Withdrawal System (South) permitted under B001482*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Cement Withdrawal System (South) (B001482).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**m. B001486 – PACKAGING SYSTEM**

*EQUIPMENT DESCRIPTION: Line "B" (East). Control: C001487 (NBH4) 60.75 hp.*

0.0	hp	Rotary Air Locks, Packer – NPM2RF1
6.0	hp	Feed, Haver units in parallel @ 1.5 hp ea – NPM2RF2
30.0	hp	Bag Packing Machine, inline, 4 spout, Haver & Boecker type 5054-4BB, 30 hp – NPM2
2.0	hp	Packer Takeaway Conveyor, flat wire mesh type, 2 hp – NPM2BC1
1.5	hp	Belt Conveyor, flat, 1.5 hp – NPM2BC2
4.5	hp	Bag Cleaning Conveyor Station, Beumer "Torture Chamber" type, @ 3 hp, 1,000 cfm
0.0	hp	(Free Air) 19.5" W.G. Blower – NPM2CS
0.8	hp	Live Roller Conveyor – NPM2RC1
1.0	hp	Check Weight Scale Belt, Bockels – NPM2WB
0.8	hp	Live Roller Conveyor – NPM2RC2
0.5	hp	Rejector Belt Conveyor – NPM2BC3
1.5	hp	Bag Flattener – NPM2LBF & NPM2BVF

0.5	hp	Packing Conveyor – NBP2PSC
17.0	hp	Palletizer, Moellers model PLS-1 – NBP2
2.0	hp	Recycle Screw Conveyor – NPM2SC
30.0	hp	Recycle Pneumatic Conveying System, 30 hp, 365 cfm – NPM2RP
0.0	hp	(Free Air) Blower, 10.1 psig – NPM2RPB
<hr/>		
98.1	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001487.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**n. C001487 – BAGHOUSE (NBH 4)**

*EQUIPMENT DESCRIPTION: Flex Kleen, model 120 WRTC-132 (III), pulse jet type baghouse, with 132 polyester bags, total filter area of 2020 sq ft, flow rate is 12,000 cfm. Fan motor is rated at 60 hp. Emissions are estimated to be 0.02 gr/acf.*

*Serves Package System "B" (East) permitted under B001486*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Package System “B” (B001486).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test),

and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- c. Date and nature of any system repairs.  
 [40 CFR 63.1350(f), 1355(g)]
- 4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
 [40 CFR Part 63 Subpart LLL]
- 5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
 [District Rule 401; 40 CFR 63.1343(b), 1345]
- 6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
 [District Rules 204 and 1303]
- 7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**o. B001954 – SHIPPING, BULK CEMENT**

*EQUIPMENT DESCRIPTION: Group 3 Silos. Control: C004865 (MBH3) 40 hp.*

40.0	hp	Air Slide System
30.0	hp	Bucket Elevator – ME6
15.0	hp	Rotary Screen – MRS3
0.0	hp	Air Slide System
85.0	hp	Total

- 1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
 [District Rule 204]
- 2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C004865.  
 [District Rule 204]
- 3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63

Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**p. C004865 – BAGHOUSE (MBH3)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120-WRTC-195 APR (III), pulse jet type baghouse, with TBD bags, total filter area of 2982 sq ft, flow rate is 15,000 cfm, air to cloth ratio is 5.0:1. Fan motor is rated at 40 hp.*

*Serving the Group 3 silos bulkloading station permitted under B001954*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall be operated concurrently with Group 3 Silos bulkloading station covered in District permit B001954.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**q. B000066 – SHIPPING – BULK, CEMENT**

*EQUIPMENT DESCRIPTION: Group 4 Silos. Control: C004864 (MBH4) 30 hp; C000071 (MBH5) 30 hp; C008438 (MBH5B) 15 hp.*

*Facility elevation is 2711 feet above sea level.*

<i>45.0</i>	<i>hp</i>	<i>Air Slide Systems</i>
<i>120.0</i>	<i>hp</i>	<i>Elevators, 2 @ 60 hp ea. – ME4, 5</i>
<i>30.0</i>	<i>hp</i>	<i>Rotary Screens, 2 @ 15 hp ea – MRS4, 5</i>
<i>35.0</i>	<i>hp</i>	<i>Air Slides, 2 @ 10 hp ea, 1 @ 15 hp</i>
<i>230.0</i>	<i>hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C004864, C000071, and C008438.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**r. C000071 – BAGHOUSE (MBH5)**

*EQUIPMENT DESCRIPTION: TBD Manufacturer, model TBD, pulse jet type baghouse, with 360 bags, measuring 5.8" X 8' L each, total filter area of 4370 sq ft, flow rate is TBD cfm, air to cloth ratio is 2.29:1. Fan motor is rated at 30 hp.*



*Serving Cement Shipping system permitted under B000066*

*Facility has specified that the normal operating range for pressure differential is between 2 and 7 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Cement Shipping (B000066).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**s. C004864 – BAGHOUSE (MBH4)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120 WRTC-252 ARR(III), with TBD bags, total filter area of 3856 sq ft, flow rate is 20,000 cfm. Fan motor is rated at 15.75 hp. Emissions are estimated to be 0.02 gr/acf. air to cloth ratio is 5.2:1. Fan motor is rated at 30 hp.*

*Serving the Group 4 silos bulkloading station permitted under B000066*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Group 4 silos bulkloading station (B000066).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**t. C008438 – BAGHOUSE (MBH5B)**

*EQUIPMENT DESCRIPTION: Airtrol Model 132BSWS120, pulse-jet type, stack height of 125 ft, diameter of 2.0 ft, airflow of 11,500 acfm, velocity of 61 ft/second at 120 degrees F, 132 Polyester bags, total filter area is 2073 sq ft, air-to-cloth ratio is 5.5:1. Fan motor is rated at 15 hp. Emissions estimated to be 0.01 grains PM-10/dscf.*

*Serves cement shipping system permitted under B000066*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be used to control emissions from Cement Railcar Shipping Upgrade (B000066).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months;
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.90 lb/hour at a maximum concentration of 0.01 grains/dscf of PM10 at the operating conditions described above. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.

**u. T007369 – CEMENT STORAGE BIN, SCALES & LOADOUT**

*EQUIPMENT DESCRIPTION: A cement storage bin of approximately 200,000 cubic ft, motors, plant air, scales and loadout bin. This equipment is vented to controls: C008185 (MG3BH10), C007370 (MG3SB1BH1), C007371 (MG3LS11BH1), C007372 (MG3LS12BH1), C008190 (MG3LS13BH1), C008191 (MG3LS14BH1), C008192 (MG3LS15BH1), C008193 (MG3LS16BH1), C015126 ( )*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the properly functioning baghouses C008185 (MG3BH10), C007370 (MG3SB1BH1), C007371 (MG3LS11BH1), C007372 (MG3LS12BH1), C008190 (MG3LS13BH1), C008191 (MG3LS14BH1), C008192 (MG3LS15BH1), C008193 (MG3LS16BH1), and C015126 ( )  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

v. **C007370 – BAGHOUSE (MG3SB1BH1)**

*EQUIPMENT DESCRIPTION: DCL Model DCL BV-49, pulse-jet type, with 37 polyester bags, total filtration area is 490 sq ft, airflow of 2800 acfm at 110 degrees F, air to cloth ratio is 5.7:1. Fan motor is rated at 10 hp.*

*Serves Bulk Unloading System permitted under T007369*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from one of 6 loading spouts (T007369).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**w. C007371 – BAGHOUSE (MG3LS11BH1)**

*EQUIPMENT DESCRIPTION: DCL Model DCL FS-467, pulse-jet type, with 32 polyester bags, total filtration area is 467 sq ft, airflow of 2000 acfm at 110 degrees F, air to cloth ratio is 4.3:1. Fan motor is rated at 7.5 hp.*

*Serves Cement Loadout System permitted under T007369*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from one of 6 loading spouts (T007369).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits

greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]

6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**x. C007372 – BAGHOUSE (MG3LS12BH1)**

*EQUIPMENT DESCRIPTION: DCL Model DCL FS-467, pulse-jet type, with 32 polyester bags, total filtration area is 467 sq ft, airflow of 2000 acfm at 110 degrees F, air to cloth ratio is 4.3:1. Fan motor is rated at 7.5 hp.*

*Serves Cement Loadout System permitted under T007369*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from one of 6 loading spouts (T007369).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**y. C008185 – BAGHOUSE (MG3BH10)**

*EQUIPMENT DESCRIPTION: DCL Model DCL 64-100, pulse-jet type, with 59 polyester bags, total filtration area is 768 sq ft, airflow of 4000 acfm at 110 degrees F, air to cloth ratio is 5.2:1. Fan motor is rated at 15 hp.*

*Serves Bulk Unloading System permitted under T007369*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Air Slide MG3AC20, and Bucket Elevator MG3BE10 (T007369).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-



annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**z. C008190 – BAGHOUSE (MG3LS13BH1)**

*EQUIPMENT DESCRIPTION: DCL, model DCL FS-467; pulse-jet type, with 32 polyester bags, measuring 6" X 40", total filtration area is 467 sq ft, airflow is 2000 acfm at 110 degrees F, air to cloth ratio is 4.3:1. Fan motor is rated at 7.5 hp.*

*Serving Spout MG3LS13 permitted under T007369*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS13 (T007369).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of

the following information, which shall be provided to District personnel upon request:

- a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**aa. C008191 – BAGHOUSE (MG3LS14BH1)**

*EQUIPMENT DESCRIPTION: DCL, model DCL FS-467; pulse-jet type, with 32 polyester bags, measuring 6" X 40", total filtration area is 467 sq ft, airflow is 2000 acfm at 110 degrees F, air to cloth ratio is 4.3:1. Fan motor is rated at 7.5 hp.*

*Serving Spout MG3LS14 permitted under T007369*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to

control emissions from Loading Spout MG3LS14 (T007369).  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**bb. C008192 – BAGHOUSE (MG3LS15BH1)**

*EQUIPMENT DESCRIPTION: DCL, model DCL FS-467; pulse-jet type, with 32 polyester bags, measuring 6" X 40", total filtration area is 467 sq ft, airflow is 2000 acfm at 110 degrees F, air to cloth ratio is 4.3:1. Fan motor is rated at 7.5 hp.*

*Serving Spout MG3LS15 permitted under T007369*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS15 (T007369).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**cc. C008193 – BAGHOUSE (MG3LS16BH1)**

*EQUIPMENT DESCRIPTION: DCL, model DCL FS-467; pulse-jet type, with 32 polyester bags, measuring 6" X 40", total filtration area is 467 sq ft, airflow is 2000 acfm at 110 degrees F, air to cloth ratio is 4.3:1. Fan motor is rated at 7.5 hp.*

*Serving Spout MG3LS26 permitted under T007369*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS16 (T007369).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**dd. C015126 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 1,137.5 sq. ft., air flow is 4,550 ACFM. Air to Cloth ratio is 4:1 (cfm/sf). Fan motor is rated at 10 hp. Exhaust temperature is 60 F.*

*Unit serves transfer points to and from bucket elevator 732-08-412-03 under District Permit T007369.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from transfer points to and from bucket elevator 732-08-412-03 under District Permit T007369.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.

[District Rule 401; 40 CFR 63.1345)]

6. This baghouse shall discharge no more than 0.10 pounds per hour of PM<sub>10</sub> at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.10 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

ee. **T015127 – ADMIX TANK ( )**

*EQUIPMENT DESCRIPTION: One 5,000 gallon polyethylene tank containing proprietary liquid material created at the Cemex Admixture Plant facility. Admixture material is to be used in Finish Mill #11 during the production of Type 1L cement.*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. All of the components of this tank, including but not limited to flanges, seals, pipes, pumps, valves, meters, and connectors shall be maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks, and excess organic liquid drainage during transfer, storage and handling operations. This condition shall be verified via a visual inspection conducted on a monthly basis by checking for the presence of liquid, leaks and staining.  
[District Rule 204]
3. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. Monthly throughput in gallons;
  - b. Annual throughput in gallons;
  - c. Monthly leak check.
  - d. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. The total amount of admixture liquid material transferred from this tank shall not exceed 481,500 gallons per year.  
[District Rule 1303]
5. The material processed through this tank shall not contain any HAP/TAC material other than Acetic Acid. Additionally, the amount of this material shall not exceed 8% by weight. To ensure compliance with this requirement, the owner/operator shall keep records of all HAP/TAC containing material, the quantity and material used on a monthly and calendar year basis. This log shall be kept on site, maintained for five years, and made available to District, upon request.  
[District Rule 1320]
6. This equipment shall not be operated until Emission Reduction Credits under ERC Certificate #143 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]



## **J) GROUP #5 – GROUP 6 CEMENT LOADOUT**

### **a. B015130 – GROUP 6 CEMENT TRUCK LOADOUT**

*EQUIPMENT DESCRIPTION: System feeding from Group 4 Silos LS29 and LS30 to truck loadouts. This equipment is vented to baghouses under District Permits C015113, C015114, C015116, C015117, C015118 and C015119.*

0.7	hp	Blower - Airslide fluidizing – 631-05-321-06
40.0	hp	Screw Conveyor – 631-06-411-06
1.0	hp	Blower - Airslide fluidizing – 631-11-321-03
40.0	hp	Screw Conveyor – 631-13-411-06
7.33	hp	Conveyor Belt, Covered – 631-14-413-06
100.0	hp	Conveyor Belt, Covered – 631-18-413-06
40	hp	Silo Blower (For Silo under District Permit T015131)
0.7	hp	Blower - Airslide fluidizing – 733-39-321-06
0.7	hp	Blower - Airslide fluidizing – 733-29-321-06
4.0	hp	Blower - Airslide fluidizing – 733-09-321-06
4.0	hp	Blower - Airslide fluidizing – 733-19-321-06
1.36	hp	Sampler (4 x 0.34 hp)
<hr/>		
239.79	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001483.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request.
  - a) A site-specific monitoring plan;
  - b) Monthly output throughput in tons; and,
  - c) Annual throughput in tons.[District Rules 204 and 1303; 40 CFR 63.1350]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. The total throughput of cement leaving this system shall not exceed 17,520,000 tons/year.  
[District Rule 204, 1303 and 1305]
6. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**b. T015131 – GROUP 6 CEMENT TRUCK LOADOUT SILO**

*EQUIPMENT DESCRIPTION: System feeding from Group 4 Silos LS29 and LS30 to truck loadouts. This equipment is vented to baghouses under District Permit C015115.*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the properly functioning baghouse under District Permit C015115.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
4. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**c. C015113 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 325 sq. ft., air flow is 1,950 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 4 hp. Exhaust temperature is 110 F.*

*Unit serves Group 6 Cement Truck Loadout under District Permit B015130.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with Group 6 Cement Truck Loadout under District Permit B015130.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.08 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that

assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.08 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**d. C015114 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 608.3 sq. ft., air flow is 3,650 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 7.3 hp. Exhaust temperature is 110 F.*

*Unit serves Group 6 Cement Truck Loadout under District Permit B015130.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with Group 6 Cement Truck Loadout under District Permit B015130.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.16 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the

bags (manometer).  
[District Rule 204]

9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.16 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**e. C015115 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is 608.3 sq. ft., air flow is 3,650 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 7.3 hp. Exhaust temperature is 110 F.*

*Unit serves Group 6 Cement Truck Loadout Silo under District Permit T015131.*

*Facility has specified that the normal operating range for pressure differential is between TBD and 8 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall operate concurrently with Group 6 Cement Truck Loadout Silo under District Permit T015131.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.16 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]

9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.16 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**f. C015116 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is TBD sq. ft., air flow is 1,800 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 4 hp. Exhaust temperature is 110 F.*

*Unit serves Group 6 Cement Truck Loadout under District Permit B015130.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with Group 6 Cement Truck Loadout under District Permit B015130.



[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.08 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests.

Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.08 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.

[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).

[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.

[District Rules 204, 1303, 1304 and 1305]

## g. **C015117 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is TBD sq. ft., air flow is 1,800 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 4 hp. Exhaust temperature is 110 F.*

*Unit serves Group 6 Cement Truck Loadout under District Permit B015130.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with Group 6 Cement Truck Loadout under District Permit B015130.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40

CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.
- [District Rule 204; 40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.08 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.08 pounds per hour of PM-10 and 0.005 gr/dscf

of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

## **h. C015118 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is TBD sq. ft., air flow is 1,800 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 4 hp. Exhaust temperature is 110 F.*

*Unit serves Group 6 Cement Truck Loadout under District Permit B015130.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with Group 6 Cement Truck Loadout under District Permit B015130.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;

- b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.08 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5I, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.08 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]

10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]
11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

**i. C015119 – BAGHOUSE ( )**

*EQUIPMENT DESCRIPTION: a TBD model TBD pulsejet baghouse with TBD polyester bags, each measuring TBD" diameter x TBD" long. Cloth area is TBD sq. ft., air flow is 1,800 ACFM. Air to Cloth ratio is TBD. Fan motor is rated at 4 hp. Exhaust temperature is 110 F.*

*Unit serves Group 6 Cement Truck Loadout under District Permit B015130.*

*Facility has specified that the normal operating range for pressure differential is between TBD and TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with Group 6 Cement Truck Loadout under District Permit B015130.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are

observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten (10) percent opacity.  
[District Rule 401; 40 CFR 63.1345)]
6. This baghouse shall discharge no more than 0.08 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
9. The owner/operator shall conduct an initial Visual Emission and PM performance tests. Visual Emissions test shall be performed in accordance with EPA Method 9 and in accordance with Subpart LLL section 63.1349(b)(2). PM performance test shall be performed in accordance with EPA Method 5 or 5L, and consist of three 1-hour tests. Opacity test results shall indicate that the baghouse stack emissions do not exceed 10 percent opacity as required by Condition 5 above. PM test results shall indicate that baghouse stack emissions do not exceed 0.08 pounds per hour of PM-10 and 0.005 gr/dscf of TSP as required by Condition 6 above. These performance tests shall be performed no later than 180 days of commencement of operation of this equipment.  
[District Rules 204 and 1303; 40 CFR 63 Subpart LLL]
10. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the

compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204; 40 CFR 63.1348(a)]

11. This equipment shall not be operated until baghouse under District Permit C005190 and G-Cooler under District Permit B001083, located at CEMEX – Quarry Plant, have been permanently removed from service. Additionally, this equipment shall not be operated until Emission Reduction Credits under ERC Certificates #121 and #128 have been fully surrendered.  
[District Rules 204, 1303, 1304 and 1305]

## ***K) GROUP #6 – 40 CF4 63 SUBPART LLL RELATED EQUIPMENT***

### **a. B001093 – FINISH MILL - (KFM 12)**

#### *EQUIPMENT DESCRIPTION:*

250.0	hp	Rail Cars unload blower
0.75	hp	Unloade blower - motor 0.75 HP Unload Blower cooling
15.0	hp	Silo Baghouse #1 15 HP Silo Baghouse #1 Exhaust Fan - motor Rail Receiving Silo
10.0	hp	Silo Aeration Fan 1 - motor
10.0	hp	Silo Aeration Fan 2 - motor
5.0	hp	Flow meters Vent Fan 1 - motor
5.0	hp	FMI Screw Conveyor 1 - motor
60.0	hp	FMI transport blower - motor
0.75	hp	FMI transport blower cooling fan - motor
5.0	hp	FM 11 Screw Conveyor 11 - motor
60.0	hp	FM 11 transport blower - motor
0.75	hp	FM 11 transport blower cooling fan - motor
5.0	hp	FM 12 transport blower - motor
60.0	hp	FM 12 transport blower - motor
0.75	hp	FM 12 transport blower cooling fan - motor
60.0	hp	Standby 1 transport blower - motor
0	hp	Rail Load out area
594.0	hp	Total

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



otherwise noted below.  
[District Rule 204]

2. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
3. This equipment shall not be operated unless transfer from the feeders and collection hopper are vented to a properly functioning baghouse operating with valid District permit C011940.  
[District Rules 204 and 1303]
4. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity from any discharge point.  
[40 CFR 63 Subpart LLL]
5. The owner/operator shall maintain a log of all material throughput amounts so as to verify the above condition. Additionally, a log shall be kept of all inspections, repairs, and maintenance on equipment. Such logs or records shall be maintained at the facility for five (5) years, and be provided to District, State and Federal personnel upon request.  
[40 CFR 63 Subpart LLL]
6. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
7. This equipment is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]

**b. T011944 – CDK RIVER SILO**

*EQUIPMENT DESCRIPTION: 415 ton CKD silo; density of material stored is 60 PCF; pneumatic transfer rate is 15 TPH; 1,011 CFM at 10 PSIG*

1. This equipment must not be operated unless it is vented to operating air pollution control equipment covered by valid District permit numbered C011943.  
[District Rule 1303]
2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications.

[District Rule 204]

3. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules.  
[District Rule 204]
4. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District upon request. The log shall be kept for a minimum period of five and made available to District, State, or Federal personnel upon request.  
[District Rule 204]
5. This equipment shall not be operated until the road paving project at the River Plant is complete as the emissions from this equipment has been offset by simultaneous emission reductions (SERS) from the road paving project at the main entrance roadway; this project is 2370 feet long by 30 feet wide.  
[District Rule 1303 - NSR Requirements]
6. This Storage Silo is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict the more stringent requirements shall govern.  
[District Rule 204]

**c. C011943 – CKD – RIVER SILO BAGHOUSE**

*EQUIPMENT DESCRIPTION: CKD River Silo Baghouse with a Design Gas Flow rate of 3500 cubic feet per minute. Total number of filters is 81; material is Polyester Felt (16 oz); length is; 8 feet; diameter is 6.088 inches. Serves CKD Storage Silo (T011944).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the CKD Storage Silo permitted under District Permit T011944.  
[40 CFR Part 63 Subpart LLL Section 63.1345]
3. The o/o shall conduct a minimum program of inspection and maintenance on this

equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:

- a. A site-specific monitoring plan;
- b. Weekly reading of baghouse pressure drop, date and value;
- c. Quarterly bag and bag suspension system inspection date and results;
- d. Date of bag replacements;
- e. Date and nature of any system repairs; and,
- f. Average PM emissions in lb/ton of clinker per Condition 7.

[District Rule 1302]

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR Part 63 Subpart LLL Section 63.1345]
6. This air pollution control device shall discharge no more than 3.00 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.  
[District Rule 1303 - NSR Requirements]
7. Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this CKD baghouse shall not exceed 0.07 lb/ton of clinker.  
[40 CFR Part 63 Subpart LLL Section 63.1343]
8. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
9. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.  
[District Rule 1302]
10. This air pollution control device shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.  
[District Rule 1302]

**d. C011945 – AFSC SYSTEM BAGHOUSE – 1**

*EQUIPMENT DESCRIPTION: Alternative Fuels - Storage Hall and Conveyance System Baghouse with a Design Gas Flow rate of 2,800 cubic feet per minute. Total number of filters is 36; material is Polyester Felt 16 oz; length is; 10 feet; diameter is 6.088 inches; serves AFSC system Permitted as B011678.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Alternative Fuels - Storage Hall and Conveyance System under District Permit B011678.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:
  - a. Weekly reading of baghouse pressure drop, date and value;
  - b. Quarterly bag and bag suspension system inspection date and results;
  - c. Date of bag replacements;
  - d. Date and nature of any system repairs; and,
  - e. PM emissions shall not exceed 0.07 lb/ton of clinker pursuant to Subpart LLL.[District Rule 1302]
4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR Part 63 Subpart LLL Section 63.1345]
6. This air pollution control device shall discharge no more than 2.88 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description. To demonstrate compliance with this condition, the

owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.

[District Rule 1303 - NSR Requirements]

7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.  
[District Rule 1302]
8. This air pollution control device shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device.  
[District Rule 1302]
9. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
10. This Baghouse is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]

**e. C011946 – AFSC SYSTEM BAGHOUSE – 2**

*EQUIPMENT DESCRIPTION: Alternative Fuels - Storage Hall and Conveyance System Baghouse with a Design Gas Flow rate of 2,800 cubic feet per minute. Total number of filters is 36; material is Polyester Felt 16 oz; length is; 10 feet; diameter is 6.088 inches; serves AFSC system Permitted as B011678.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 204]
2. This baghouse shall operate as part of the process known as the Alternative Fuels - Storage Hall and Conveyance System under District Permit B011678.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of

the following information, which shall be provided to District, State or Federal personnel upon request:

- a. Weekly reading of baghouse pressure drop, date and value;
- b. Quarterly bag and bag suspension system inspection date and results;
- c. Date of bag replacements;
- d. Date and nature of any system repairs; and,
- e. PM emissions shall not exceed 0.07 lb/ton of clinker pursuant to Subpart LLL.

[District Rule 1302]

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR Part 63 Subpart LLL Section 63.1345]
6. This air pollution control device shall discharge no more than 2.88 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.  
[District Rule 1303 - NSR Requirements]
7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.  
[District Rule 1302]
8. This air pollution control device shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device.  
[District Rule 1302]
9. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
10. This Baghouse is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]

## ***L) GROUP #7 – MISCELLANEOUS EQUIPMENT***

### **a. N001452 – GASOLINE DISPENSING FACILITY (NON-RETAIL)**

*EQUIPMENT DESCRIPTION: One 10,000 gallon above ground storage tank (AGT) storing gasoline. A 15,000 gallon Diesel AGT is exempt from permitting, pursuant to MD Rule 219(E)(15)(c)(iii).*

#### FUEL TANKS

<b>Tank No.</b>	<b>Material Stored</b>	<b>Volume (US Gallons)</b>	<b>Above/Underground</b>
1	87U	10,000	Above Ground
2	Diesel	15,000	Above-Ground

#### DISPENSING EQUIPMENT

<b>Fuel Type</b>	<b>Quantity</b>
87U	1

#### VAPOR CONTROL EQUIPMENT

<b>Type</b>	<b>Equipment Name</b>	<b>Compliance</b>
PII	BAL	G-60-167
PI	CO	G-60-167

1. The toll-free telephone number that must be posted is 1-800-635-4617. [Rule 204]
2. The owner/operator (o/o) shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461. Such logs or records shall be maintained at the facility for at least five (5) years and shall be available to the District upon request.  
[District Rule 461]
3. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the District.  
[District Rule 204]
4. The gasoline vapor vent pipes are to be equipped with Husky 5885 pressure relief valves or as otherwise allowed by Executive Order (EO) VR-301.  
[District Rule 204; Executive Order VR-301]
5. The o/o shall perform the following tests within 60 days of construction completion and annually thereafter in accord with the following test procedures:
  - a. Static Pressure Decay Test per CARB test method TP-201.3B (2-inch test);
  - b. Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves per TP-201.1E;
  - c. Liquid Removal Test (if applicable) per TP-201.6, and
  - d. If a FFS PV-Zero P/V vent valve is used, tests shall be conducted with the valve

remaining in its installed position on the vent line(s) in accordance with PV-Zero section of the applicable ARB-Approved Installation, Operation and Maintenance Manual.

- e. Emergency vents and manways shall be leak free when tested at the operating pressure of the tank in accordance with CARB test methods, as specified in Title 17, California Code of Regulations; per CARB Method 21; a leak is defined as a meter concentration of 10,000 ppmv as methane or higher.  
[http://www.arb.ca.gov/testmeth/vol1/Meth21\\_clean.pdf](http://www.arb.ca.gov/testmeth/vol1/Meth21_clean.pdf)

The District shall be notified a minimum of 10 days prior to performing the required tests with the final results submitted to the District within 30 days of completion of the tests.

The District shall receive passing test reports no later than six (6) weeks prior to the expiration date of this permit.

[District Rule 204]

6. The annual throughput of gasoline shall not exceed 480,000 gallons per year. Throughput Records shall be kept on site and available to District personnel upon request. Before this annual throughput can be increased the facility may be required to submit to the District a site-specific Health Risk Assessment in accord with a District approved plan. In addition public notice and/or comment period may be required.  
[District Rule 204, Executive Order VR-501]
7. The o/o shall; install, maintain, and operate this equipment in compliance with CARB Executive Order G-70-132-B, with the exception of the exterior coating and P/V valve configuration, which shall be in accordance with EO VR-301. Additionally, hanging hardware must be replaced with VST Balance EVR type hanging hardware during routine equipment change outs.  
[District Rule 204]
8. Exterior coating and P/V valve retrofit shall occur no later than April 1, 2013; records of the retrofit shall be kept on site and available to State and District personnel upon request.  
[District Rule 204]
9. The o/o shall; install, maintain, and operate this equipment in compliance with these permit conditions and 40 CFR Part 63 Subpart CCCCCC; in the event of conflict the more stringent requirements shall govern.  
[District Rule 204]
10. The California Air Resources Board (CARB) has established a timeline for Aboveground Storage Tanks (AST) Enhanced Vapor Recovery (EVR) system implementation. Pursuant to CARB requirements and State mandated retrofits, the o/o shall ensure that this tank meets all the applicable requirements within the designated timeframes; EVR Phase I shall be installed by JULY 1, 2014. Prior to conducting any modifications, except standing loss retrofits, the o/o shall obtain a District approved Authority to Construct (ATC) Permit. See the following link for AST EVR Timeline:  
[http://o3.arb.ca.gov/vapor/asttimeline\\_123009.pdf](http://o3.arb.ca.gov/vapor/asttimeline_123009.pdf) [Rule 204]



## 2) CEMEX – BLACK MOUNTAIN QUARRY PLANT

### A) ***GROUP #1 – CRUSHING SYSTEM***

#### a. **B000080- CRUSHER – PRIMARY LIMESTONE**

*EQUIPMENT DESCRIPTION: Allis Mineral Systems, Superior model 4265 gyratory crusher which is rated at a maximum of 1200 t/h for the current open side setting and eccentric throw.*

*350.0 hp Crusher, motor – BCG*

*150.0 hp Belt Conveyor – BBC1*

*500.0 hp Total*

1. The owner/operator (o/o) shall operate all equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emission of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless material processed is treated by dust suppression system (C002081) and baghouse BBH2 is in operation (C008895) as applicable.  
[District Rule 204]
3. This equipment is limited to processing 21,600 tons of material in any calendar day.  
[District Rule 204]
4. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State and Federal personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily processing rate in tons;
  - c. Monthly crusher and fugitive emission point observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); and,
  - d. Date and nature of all repairs and maintenance on this equipment.

[District Rule 204]

5. This equipment shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.  
[District Rule 204; 40 CFR 60.670]
6. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than the following opacity:
  - a. Crusher - fifteen percent (40 CFR 60.672(b))
  - b. Transfer points and all other fugitive emissions - ten percent (40 CFR 60.672(b))[District Rule 204; 40 CFR 60.672]

**b. B000081- CRUSHER – SECONDARY LIMESTONE**

*EQUIPMENT DESCRIPTION:*

2.0	hp	Scavenger Drag Conveyor - BAFC1DCC
2.0	hp	Scavenger Drag Conveyor - BAFC2DCC
30.0	hp	Apron Feed Conveyor - BAFC1
30.0	hp	Apron Feed Conveyor - BAFC2
40.0	hp	Belt Conveyor - BBC2
40.0	hp	Belt Conveyor - BBC5
15.0	hp	Vibrating Screen - BVS1
15.0	hp	Vibrating Screen - BVS2
600.0	hp	Impactor, Pennsylvania - BIC1
600.0	hp	Impactor, Pennsylvania - BIC2
30.0	hp	Belt Conveyor - BBC3
30.0	hp	Belt Conveyor - BBC6
30.0	hp	Belt Conveyor - BBC8
7.5	hp	Belt Conveyor - CBC1
15.0	hp	Belt Conveyor - CBC3
75.0	hp	Belt Conveyor - CBC4
42.0	hp	Sample System
60.0	hp	Belt Conveyor - CBC5
20.0	hp	Belt Conveyor - CBC6
75.0	hp	Belt Conveyor - CBC8
53.0	hp	Air Compressors - 50 hp and 3 hp
1811.5	hp	Total

1. The owner/operator (o/o) shall operate all equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emission of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless material processed is treated by dust

suppression systems (C002081 and C002082) and baghouse BBH1 is in operation (C008894) as applicable. If only one processing line is in operation, only the appropriate control for that line is required to be in operation.

[District Rule 204]

3. This equipment is limited to processing 21,600 tons of material in any calendar day.  
[District Rule 204]
4. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State and Federal personnel upon request:
  - a. Daily processing rate in tons;
  - b. Monthly crusher and fugitive emission point observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); and,
  - c. Date and nature of all repairs and maintenance on this equipment.[District Rule 204]
5. This equipment shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.  
[District Rule 204; 40 CFR 60.670]
7. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than the following opacity:
  - a. Crusher - fifteen percent (40 CFR 60.672(b))
  - b. Transfer points and all other fugitive emissions - ten percent (40 CFR 60.672(b))[District Rule 204; 40 CFR 60.672]

**c. C002081- DUST SUPPRESSION SYSTEM (BSS01)**

*EQUIPMENT DESCRIPTION: A chemical dust suppression system, Model CR5-10 with a three phase 3 hp pump. This system serves the primary crusher (B000080), the secondary crusher, and transport belts to CBC4 (B000081).*

1. The owner/operator (o/o) shall operate all equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emission of air contaminants.  
[District Rule 204]
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.  
[District Rule 204]
3. This equipment shall operate concurrently with the primary crushing system (B000080),

the secondary crushing system, and transport belts to CBC4 (B000081), as applicable.  
[District Rule 204]

**d. C002082- DUST SUPPRESSION SYSTEM (BSS02)**

*EQUIPMENT DESCRIPTION: A chemical dust suppression system, Model CR5-10 with a three phase 3 hp pump. This system serves the secondary crusher system (B000081) and the transport belts to CBC9 and CBC10 (B001666).*

1. The owner/operator (o/o) shall operate all equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emission of air contaminants.  
[District Rule 204]
2. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.  
[District Rule 204]
3. This equipment shall operate concurrently with the secondary crushing system (B000081) and transport belts to CBC9 and CBC10 (B001666), as applicable.  
[District Rule 204]

**e. C008894- BAGHOUSE (BBH1)**

*EQUIPMENT DESCRIPTION: A Mikropul Pulse-jet Model 289S10TR baghouse, equipped with 196 Acrylic coated polyester bags (3405 square feet of area) and a 60 hp fan generating 3500 ACFM (for an air to cloth ratio of 5.9:1). This device vents the secondary crushing system (B000081).*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the secondary crushing system (B000081).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon

request:

- a. Monthly (or as otherwise allowed by 40 CFR 63.1350) baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
  - b. Quarterly bag and bag suspension system inspection date and results;
  - c. Date of bag replacements; and,
  - d. Date and nature of any system repairs.  
[District Rule 204]
4. This baghouse shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.  
[District Rule 204; 40 CFR 60.670]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity.  
[District Rule 204; 40 CFR 60.672(a)(2)].
6. This baghouse shall discharge no more than 1.71 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT).  
[District Rule 204]
7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions.  
[District Rule 204]

**f. C008895- BAGHOUSE (BBH2)**

*EQUIPMENT DESCRIPTION: An AIC Pulse-jet Model 78TB-BVT-16 baghouse, equipped with 16 polyester bags (170 square feet of area) and a 5 hp fan generating 1000 ACFM (for an air to cloth ratio of 5.9:1). This device vents the primary crushing system (B000080).*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the primary crushing system (B000080).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:

- a. Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
  - b. Quarterly bag and bag suspension system inspection date and results;
  - c. Date of bag replacements; and,
  - d. Date and nature of any system repairs.  
[District Rule 204]
4. This baghouse shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.  
[District Rule 204; 40 CFR 60.670]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity.  
[District Rule 204; 40 CFR 60.672(a)(2)].
  6. This baghouse shall discharge no more than 0.09 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT).  
[District Rule 204]
  7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions.  
[District Rule 204]

**g. C010085 – BAGHOUSE (DBH6A)**

*EQUIPMENT DESCRIPTION: G.E. Energy model 07-RH-057-11A, PulseJet type with 64 Polyester Bags, each measuring 5.75" diameter x 120.5" long. 5000 cfm, 967 ft<sup>2</sup> cloth area, Air to Cloth ratio is 5.2:1. 25 hp fan motor.*

*Used in the Limestone Raw Grinding System.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Roll Press No. 1 System, under valid District permit number B007336.  
[District Rule 204].
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the

following information, which shall be provided to District personnel upon request:

- a) Weekly visible emission determinations, observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
- b) Monthly bag and bag suspension system inspection date and results;
- c) Regular bag pressure differential measurements;
- d) Date of bag replacements; and,
- e) Date and nature of any system repairs.

[District Rule 204]

- 4. This baghouse shall be operated in compliance with 40 CFR 60 Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants.  
[District Rule 204; 40 CFR Subpart 000]
- 5. This baghouse shall discharge no more than 0.86 pounds per hour of PM10 at a maximum concentration of 0.02 grains/dscf of TSP at the operating conditions given in the above description (BACT).  
[District Rules 204 and 1303].
- 6. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions.  
[District Rule 204].

**h. B000082 – LIMESTONE SHIPPING**

*EQUIPMENT DESCRIPTION: Bulk by Rail.*

57.6	hp	Vibrating Feeders – CVF1 & CVF2
75.0	hp	Belt Conveyor – CBC7
132.6	hp	Total

- 1. The owner/operator (o/o) shall operate all equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emission of air contaminants.  
[District Rule 204]
- 2. Materials processed shall contain sufficient natural, or added, moisture to ensure compliance with Rule 401, 402 and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.  
[District Rules 204, 401, 402, and 403]
- 3. The owner/operator (o/o) shall operate this equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.  
[District Rule 204]

4. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.  
[District Rules 204 and 1203]

**i. B001666 – LIMESTONE STACKING SYSTEM**

*EQUIPMENT DESCRIPTION: Bulk by Rail.*

0.0	hp	Drop Tube from CBC8
20.0	hp	Belt Conveyor – CBC9
125.0	hp	Belt Conveyor – CBC10
75.0	hp	Belt Conveyor – CBC11
<hr/>		
220.0	hp	Total

1. The owner/operator (o/o) shall operate all equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emission of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless material handled is treated by dust suppression systems BSS01 and BSS02 (C002081 and C002082, respectively) and baghouse CBH3 (C007337) is in operation as applicable.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State and Federal personnel upon request:
  - a. Monthly transfer and fugitive emission point observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); and,
  - b. Date and nature of all repairs and maintenance on this equipment.[District Rules 204 and 1203]
4. This equipment shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.  
[District Rule 204; 40 CFR 60.670]
5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity from any transfer point or other fugitive emission point [Rule 204, 40 CFR 60.672(b)(2)].

**j. C007337 – BAGHOUSE, CBH3, AT DROP TUBE FROM CBC8**



## **(B001666), RAW MATERIAL TRANSPORT SYSTEM**

*EQUIPMENT DESCRIPTION: Flex-Kleen, Pulse Jet Type, Air:Cloth ratio of 5.7:1, operating at ambient temperature, 40 bhp motor, 64 Polyester bags each measuring 5.75" diameter x 120.5" long, cloth area 967 ft<sup>2</sup>. Stack height 6 ft, stack diameter 1.6 ft, flow rate 5500 acfm, exhaust velocity of 45.6 ft/sec, maximum emission rate of 0.01 grains PM-10/dscf. This unit serves the drop tube from CBC8 (B001666).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with a drop tube from Conveyor Belt CBC8 under District Permit B007337.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This baghouse shall discharge no more than 0.48 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT).  
[District Rule 204 and 1303]

6. This baghouse shall discharge no more than 0.47 lb/hour of PM10 at a maximum concentration of 0.01 gr/dscf of PM-10 at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
8. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
9. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

## ***B) GROUP #2 – RAW GRINDING: RAW MILLS 1 & 2, LIMESTONE RECLAIM & STORAGE***

### **a. B000083 – RAW MATERIAL SYSTEM – NO. 1**

*EQUIPMENT DESCRIPTION: Controls: C000087 (DBH3) 15 hp; C000095 (EBH1) 75 hp; C0001667 (DBH1) 75 hp; C001668 (EBH2) 25 hp; C001294 (EBH3); C001295 (EBH4) under B001084; C008244 (DBH6) 20 hp*

25.0	hp	Belt Conveyor – DBC4
28.0	hp	Belt Conveyor – DBC5,6 (25 + 3 hp)
2500.0	hp	Raw Mill No. 1 – DRM1 (2 x 1,250 hp)
4.0	hp	Belt Feeder – DWF5 (3 + 1 hp)
150.0	hp	Bucket Elevator – DE1
12.5	hp	Dust Return System
310.0	hp	Air Separators - DAS1,2 (2 x 125 + 30 hp)
650.0	hp	Fuller Kinyon Pump - DPI (400 + 250)
4.5	hp	Rotary Locks @ 1.5 hp ea.
1.0	hp	Rotary Lock
<hr/>		
3685.0	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.

[District Rule 204]

2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by all the appropriate District valid permit Nos. C000087, C000095, C001294, C001295, C001667, C001668, and C008244 as determined by three possible routings from 3-way valves 27-TWV-3 and 27-TWV-4.  
[District Rule 204]
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.  
[District Rules 204 and 1203]

**b. C000087 – BAGHOUSE (DBH1)**

*EQUIPMENT DESCRIPTION: Fabric Filters Corp., Pulse-Jet model 120-WRTC-80III with 120 16-oz polyester felt bags 5.8" dia x 120" L, 2252 sq.ft. cloth area, 1.37 A/C ratio. 19F2 - 2,500 ACFM fan, American Standard, size 15, type E, model 15-249, with 15 hp motor.*

*Serving Raw Mill System, DBC4 to DBC5 (B000083).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Raw Mill System 27RM1 (B000083).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**c. C000095 – BAGHOUSE (EBH1)**

*EQUIPMENT DESCRIPTION: Serving Kiln 1Q feed silo (B000083). EBH1 - Baghouse, Mikro Pul 3 compartment, 2,862 sq.ft. cloth area, 14,000 CFM, 75 hp fan.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Kiln 1Q Feed Silo (B000083).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**d. C001294 – BAGHOUSE (EBH3)**

*EQUIPMENT DESCRIPTION: Mikro Pul Pulse jet type with 288 polyester felt bags, each measuring 5.75" diameter x 120.5" long. 15,000 CFM (max intermittent), 4,351 sq.ft. cloth area, A/C ratio 3.4:1, 60 hp, 1,332 RPM Buffalo 60 MW fan.*

*Serving No. 1 raw mill system DRM12 (B00083), Kiln No. 1 homogenizing silo No. 2 vent.*

*Facility has specified that the normal operating range for pressure differential is between TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with No. 1 Raw Mill System DRM12 (B000083).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-

annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**e. C001667 – BAGHOUSE (DBH1)**

*EQUIPMENT DESCRIPTION: Southwest PC Mark VII Reverse-Air type with 7 compartments, 858 Fabric bags, each measuring 6" diameter x 166" long. 18,634 ft<sup>2</sup>, Air/Cloth ratio: 1.4. 26,000 CFM, 75 hp fan.*

*Serving No. 1 Raw Mill (B000083).*

*Facility has specified that the normal operating range for pressure differential is between 1 and 4.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with No. 1 Raw Mill System (B000083).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**f. C001668 – BAGHOUSE (EBH2)**

*EQUIPMENT DESCRIPTION: Serving No. 1 Raw Mill, East Homo Silo (B000083). EBH2 - Baghouse, FlexKleen Pulse-Jet 754 SF, 4,000 CFM. 25 hp.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with No. 1 Raw Mill System, East Homo Silo (B000083).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 1303]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**g. C008244 – BAGHOUSE (DBH6)**

*EQUIPMENT DESCRIPTION: Flex-Kleen model 12U-BVT-25 (III), Pulse-Jet type with 25 polyester bags, each measuring 5.75" diameter x 120.5" long. airflow of 2000 acfm at ambient temperature, 383 ft<sup>2</sup> of cloth area and Air-to-Cloth ratio of 5.2:1. 20 bhp motor. Maximum emission rate of 0.01 grains PM-10/dscf.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Raw Material Grinding System, under valid District permit number B000083 at transfer point DB5/DB6.  
[District Rule 204]



3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.17 lb/hour, at a maximum concentration of 0.01 grains/dscf of PM10, at the operating conditions described above. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**h. B001084 – RAW MILL NO. 2 SYSTEM**

*EQUIPMENT DESCRIPTION: Controls: C001292 (DBH5) 20 hp; C001293 (DBH2) 1000 hp; C001295 (EBH4) 100 hp; C001296 (DBH4) 5 hp; and C003249 (QBH1) 3 hp.*

- 4.0 hp Vibrating Feeder (2 x 2 hp) – DVF4, 5, 6*
- 8.0 hp Weight Feeders (4 x 2 hp) – DWF6-9, 12*
- 4.0 hp Weight Feeder (3 + 1) DWF10*
- 10.0 hp Conveyor Belt, Tunnel*

10.0	hp	Conveyor Belt, Covered
20.0	hp	Conveyor Belt, Covered
20.0	hp	Conveyor Belt, Covered
15.0	hp	Conveyor Belt, Covered
4545.7	hp	No. 2 Raw Mill, Ball (inching Drive @ 125 hp)
19.0	hp	Conveyor, Pneu (4, 7.5, 7.5 hp)
5.0	hp	Conveyor, Pneu
125.0	hp	Bucket Elevator
500.0	hp	Air Separator
0.0	hp	Cyclone
7.5	hp	Conveyor, Screw
750.0	hp	Conveyor, Pneu (4@250, 1 stand-by)
83.0	hp	Aux. Heater (50+30+3)
4.5	hp	3 Rotary Air Locks @ 1.5 hp
5.0	hp	Conveyor, Screw
0.0	hp	Additive Feed Bin
5.0	hp	Aeration Blower
3.0	hp	Rotary Feeder
<hr style="width: 20%; margin-left: 0;"/>		
6143.7	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by the appropriate District valid permit Nos. C001292, C001293, C001295, C001296 and C003249, as determined by three possible routings from 2-way valves DP2TWV1 and DP2TWV2.  
[District Rule 204]
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.  
[District Rules 204 and 1203]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**i. C001292 – BAGHOUSE (DBH5)**

*EQUIPMENT DESCRIPTION: Flex Kleen 12U-BVT-25 (III), serial No. 40-53-20716, Pulse Jet type with 25 polyester felt bags, each measuring 5.8" diameter x 120" long. 2,000 CFM, 382 sq.ft. A/C ratio of 5.2:1 Fan motor 20 hp.*

*Serving raw mill system DRM2 (B001084): DBC-8 to DBC-9 transfer*

*Facility has specified that the normal operating range for pressure differential is between 3 and 7 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Raw Mill System DRM2 (B001084).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**j. C001293 – BAGHOUSE (DBH2)**

*EQUIPMENT DESCRIPTION: Mikro Pul model 180-S-12-30-TRH Pulse jet type with 1440 polyester felt bags, each measuring 4.625" diameter x 148" long., 95,000 CFM, 20,652 sq.ft., A/C ratio 4.4:1 includes 1,180 RPM Solvent-Ventec fan @ 750 hp.*

*Serving raw mill system DRM2 (B001084):*

*DBH2 - Dust Collector System, No. 2 Raw Mill vent plus RM nuisance dust control*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

10. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
11. This baghouse shall operate concurrently with the Raw Mill System DRM2 under District Permit B001084.  
[District Rule 204]
12. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - f. A site-specific opacity monitoring plan;
  - g. Daily reading of baghouse pressure drop, date and value;
  - h. Annual inspection of the bags and bag suspension system;
  - i. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - j. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
13. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
14. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
15. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test.

However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]

16. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]
17. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
18. The pollutant-specific emission unit (B001084), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 2 and 6 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**k. C001295 – BAGHOUSE (EBH4)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120-WMTC-225 pulse jet type with 225 polyester felt bags, each measuring 5.75" diameter x 120.5" long. 20,000 CFM (max intermittent), 3.399 sq.ft. cloth area, A/C ratio 5.9:1. 1,113 RPM Buffalo 70 MW fan. 100 hp.*

*Serving No. 2 Raw Mill System DRM2 (B001084): Kiln No. 2 homogenizing silo vent.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the No. 2 Raw Mill System 27RM2 (B001804).  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**I. C012650 – ACTIVATED CARBON INJECTION SYSTEM – KILN Q2**

*EQUIPMENT DESCRIPTION: An Activated Carbon Injection (ACI) system to be used as a mercury (Hg) sorbent on Kiln Q2. This ACI system is composed of a storage silo for the activated carbon with an integrated, passive silo dust collector, an air-activated silo discharge system, a loss-in-weight feeder system with an integrated, passive dust filter system, a positive displacement conveyance blower, and conveyance lines/piping and associated couplings. The ACI system will feed activated carbon at a predetermined controlled rate into the kiln exhaust stream duct prior to entry into the kiln baghouse.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
  
2. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:
  - d. Monthly reading of dust collectors' pressure drop, date and value;
  - e. Quarterly silo bin sock and dust collector inspection date and results;
  - f. Date of bin sock and or cartridge filter replacements;
  - g. Date and nature of any system repairs; and,[District Rule 1302]
  
3. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 204]
  
4. The systems air pollution control devices shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.  
[District Rule 1302]
  
5. This System shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
  
6. System dust collectors shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR 63.1343(b), 1345]
  
7. System dust collectors shall not discharge PM-10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description.  
[District Rule 1302]
  
8. Dust collector shall discharge no more than 0.003 pounds per hour, and no more than 0.081 lbs/day, and no more than 0.015 tpy of PM10. To demonstrate compliance with this

condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of the systems dust collector and bin sock and keep records of the systems hours of operation and the associated calculations.

[District Rule 1303 – NSR Requirements]

9. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
10. This system and its associated dust collectors are subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]
11. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**m. B012253 – LIME INJECTION PROCESS**

*EQUIPMENT DESCRIPTION: Material Conveyance System LIS1 for Kiln Q2*

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.  
[District Rule 204]
2. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
3. This equipment shall not be operated unless transfer from the feeders and collection hopper are vented to a properly functioning baghouse operating with valid District permit C012194.  
[District Rules 204 and 1303]
4. The owner/operator shall maintain a log of all material throughput amounts so as to verify the above condition. Additionally, a log shall be kept of all inspections, repairs, and maintenance on equipment. Such logs or records shall be maintained at the facility for five (5) years, and be provided to District, State and Federal personnel upon request.  
[40 CFR 63 Subpart LLL]



5. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
6. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity from any discharge point.  
[40 CFR 63.1343(b), 1345]
7. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant roadway. Road center line is defined as: from lat/long of 34.622956/-117.101988 to a lat/long of 34.619300/-117.103491; this project is 1774 feet long by 39 feet wide. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
8. This equipment is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]

**n. C001296 – BAGHOUSE (DBH4)**

*EQUIPMENT DESCRIPTION: DCE Vokes envelope filter model DCM-V20/10 with 30 polyester bags, each measuring 19.5" diameter x 40" long. 2,000 CFM, 323 sq.ft., A/C ratio 6.19:1. 5 hp.*

*Serving Raw Mill System DRM2 (B001084): DBC-7 to DBC-8 Transfer.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Raw Mill System DRM2 (B001084).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are

observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**o. C003249 – BAGHOUSE (QBH1)**

*EQUIPMENT DESCRIPTION: Fuller model 3FM Unifilter, Mechanical Shaker type baghouse with 16 polyester bags, each measuring 4.8' x 3'6". Cloth area is 402 ft<sup>2</sup>, air flow is 1600 ACFM. Air to Cloth ratio is tbd. Fan motor is rated at 3 hp. Exhaust stack is 26'L X 102" dia. Exhaust Temperature is 110 F.*

*Unit serves Raw miss additive system permitted under B001084.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Raw Miss Additive System permitted under B001084.  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Pressure differential across the bags (monthly);
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
  
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
  
7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**p. B001289 – LIMESTONE RECLAIM SYSTEM**

*EQUIPMENT DESCRIPTION: For storage. Controls: C001290 (CBH1) 25 hp; C001291 (CBH2) 40 hp.*

200.0	<i>hp</i>	<i>Bridge-type Reclaimer - CBR</i>
50.0	<i>hp</i>	<i>Conveyor Belt - CBC12</i>
75.0	<i>hp</i>	<i>Conveyor Belt CBC 13</i>
0.0	<i>hp</i>	<i>Surge Bin</i>
325.0	<i>hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by both District valid permit Nos. C001290 and C001291.  
[District Rule 204]
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.  
[District Rules 204 and 1203]
4. Materials processed shall contain sufficient natural, or added, moisture to ensure compliance with Rule 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.  
[District Rules 204, 401, 402, and 403]

**q. C001290 – BAGHOUSE (CBH1)**

*EQUIPMENT DESCRIPTION: Flex-Kleen model 120 WRTC 48III with 48 polyester bags, each measuring 5.75" diameter x 120.5" long. 734 sq.ft. cloth area, 4,000 CFM. A/C ratio 5.52:1, 45 hp Buffalo Forge exhaust fan, size 45 hp. Serving raw material reclaim conveyor to elevator conveyor (B001289).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Raw Material Reclaim Conveyor to Elevator Conveyor (B001289).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test),

and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**r. C001291 – BAGHOUSE (CBH2)**

*EQUIPMENT DESCRIPTION: Flex-Kleen model 120 WRTC 48III with 96 polyester bags, each measuring 5.75" diameter x 120.5" long. 1,450 sq.ft. cloth area, 8,400 CFM. A/C ratio 5.45. 40 hp Buffalo Forge exhaust fan, size 45. Serving raw material conveyor DBC 13 to raw mill feeder bin (B001289).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Raw Material Reclaim Conveyor to Elevator Conveyor (B001289).  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**s. T001998 – SILO – STORAGE**

*EQUIPMENT DESCRIPTION: Controls: C001294 (EBH3 - B000083); C000095 (EBH1 - B000083); C001295 (EBH4 - B001084); C001668 (EBH2 - B000083).*

<i>748000.0</i>	<i>gallons</i>	<i>2 Silos, Homogenizing, 100 MCF</i>
<i>1458000.0</i>	<i>gallons</i>	<i>1 Silo, Blending Kiln, 195 MCF</i>
<i>2206000.0</i>	<i>gallons</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. These silos shall not be operated unless they are vented to the functioning air pollution control equipment covered by the appropriate valid District permit Nos. C001294, C001295, C000095 and C001668.  
 [District Rule 204]

## C) GROUP #3A – CLINKER BURNING & COOLING

### a. B001083 – KILN (Q2) AND CLINKER COOLER SYSTEM

*EQUIPMENT DESCRIPTION: Coal milling, a pre-heater pre-calciner short cement kiln (operating with oxygen enrichment), and a clinker cooler assembly. Note that horsepower ratings have been converted to heat input assuming 2550 Btu per horsepower.*

0.147	btu/hp-hr	Blending System (67 hp)
0.1	btu/hp-hr	Elevator (40 hp) - EF1
0.03	btu/hp-hr	Calibration System (15 hp) - EFB
0.35	btu/hp-hr	Dust Return System (140 hp)
1.02	btu/hp-hr	Air Lift (400 hp) – EALF
240	btu/hp-hr	Preheater-Precalciner - GPH2 (240 MMBTU/hr)
8.92	btu/hp-hr	Preheater 7A (3500 hp) - GDF2
221.53	btu/hp-hr	Kiln Q2 (600 hp) - GK2 (and 220 MMBTU/hr)
3.97	btu/hp-hr	Clinker Cooler (1560 hp) - GCC2
0.03	btu/hp-hr	Belt Conveyor (15 hp) - FBC3
0.19	btu/hp-hr	Fifteen 5 hp Screw Conveyors - GGF2SC
0.01	btu/hp-hr	Two 3 hp Feeders - FCMI, 2WF
1.53	btu/hp-hr	Coal Mills 2 and 3 (300 hp each) - FCM 2 & 3
1.27	btu/hp-hr	Coal Mill 1 with cage and vane high efficiency classifier (500hp) - 33-CMI
0.28	btu/hp-hr	Primary Air Fan (110 hp) - GK2BOF
0.02	btu/hp-hr	Drag Conveyor (10 hp) - GCC2DC2
0.18	btu/hp-hr	Roller Crusher (four 17.7 hp)
0.06	btu/hp-hr	Bucket Conveyor (25 hp) - GPC1
1.33	btu/hp-hr	Seven 75 hp Cooling Fans - GGCF1 through GGCF7
0.02	btu/hp-hr	Discharge Gate Drive (10 hp) - GGCDG1B
0.03	btu/hp-hr	Pan Conveyor (15 hp) - HPC1
0.0	btu/hp-hr	Water Spray Cooling System (In the downcomer duct of Kiln Q2)
0.07	btu/hp-hr	Distribution Drag Conveyor (30 hp) - GG CDC
0.07	btu/hp-hr	Drag Conveyor (30 hp) - GCC2DC1
<hr/>		
477.187	btu/hp-hr	Total

1. The owner/operator (o/o) shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application

under which this permit is issued unless specifically exempted in other conditions hereon.  
[District Rule 204]

2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permits (C000094 (FBH1), C001090 (GBH2), C001091 (GGF2), C001297 (HBH1A/B001675), C001298 (HBH2/B001675), C001299 (EBH5), C005190 (GGCBH), and C010581 (FBH2)).  
[District Rule 204]
3. The sulfur content requirements of Rule 431 shall be complied with through the SO<sub>x</sub> emissions limits presented below, in accordance with Rule 431(g).  
[District Rules 204 and 431]
4. The emissions from Kiln Q2, on any fuel or mix of fuels, shall not exceed any of the following mass limits in pounds per ton of clinker, calculated on a rolling 30 calendar day average basis and verified by CEMS and CERMS data:
  - a. NO<sub>x</sub> - 1.95
  - b. SO<sub>x</sub> (as SO<sub>2</sub>) - 0.35
  - c. VOC - 0.12
  - d. TSP (Kiln Stack) - 0.14 (Total PM; Filterable and Condensable)
  - e. PM - 0.07 (Filterable PM; pursuant to Subpart LLL)
  - f. CO - 2.9[Case No. ED CV 07-00223-GW (JCRx) CONSENT DECREE; 40 CFR 63 Subpart LLL]
5. The combined NO<sub>x</sub> emissions from Kilns Q2 and Q3, on any fuel or mix of fuels, shall not exceed 19,314 lbs. per Day of Operation, defined as midnight to midnight.  
[Case No. ED CV 07-00223-GW (JCRx) CONSENT DECREE]
6. The combined emissions from all permitted combustion sources, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:
  - a. NO<sub>x</sub> - 19,314 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - b. SO<sub>x</sub> - 4,220 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - c. CO - 27,522 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - d. VOC - 2,139 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - e. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - f. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)

[District Rule 204]



7. The daily emissions for each operating day for kiln Q2 shall be recorded and/or calculated in a manner approved by the District. The data shall be submitted to the District within 30 days of the end of each calendar quarter.
8. The emissions of CO, NO<sub>x</sub>, SO<sub>x</sub> and O<sub>2</sub> shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas volumetric flow rate shall be monitored using a Continuous Emission Rate Monitoring System (CERMS). This equipment shall be operated in compliance with a District-approved 40 CFR 60 Appendix F CEMS/CERMS quality assurance and operational protocol.
9. The following are the acceptability testing requirements for the CEMS, and CERMS:
  - a. For SO<sub>2</sub> and NO<sub>x</sub> CEMS - Performance Specification 2 of 40 CFR 60, appendix
  - b. For O<sub>2</sub> CEMS - Performance Specification 3 of 40 CFR 60, appendix B;
  - c. For CO CEMS - Performance Specification 4 of 40 CFR 60, appendix B; and
  - d. For CERMS - Performance Specification 6 of 40 CFR 60, appendix B; CEMS and CERMS have the same meaning as in condition 4 above.
10. The o/o shall submit a written report of excess emissions to the District Compliance Supervisor for every calendar quarter. All of these quarterly reports shall be postmarked by the 30-day following the end of the quarter.
11. The o/o shall maintain a current, on-site daily operational log for Kiln Q2 for a minimum of five (5) years, and shall provide the operations log to District, State or Federal personnel on request. The operational log shall, at a minimum, contain the information specified below:
  - a. Hours of operation, including specific hours in start-up and shutdown;
  - b. Dates of routine maintenance;
  - c. Dates of major repairs, replacements and scheduled shut-downs;
  - d. For each hour: Type of fuel being used, the Btu/h of each fuel, and the percent of total Btu feed for each fuel;
  - e. Tons of raw material, excluding coal, charged to the kiln;
  - f. Mass of alternative, engineered and supplemental fuel burned, by type;
  - g. Tons of clinker produced (this datum shall be calculated by an equation similar to the following, which is used for kiln Q2:  $\text{Clinker, t/h} = \text{kiln feed scale reading} \times 0.89 \times F / 1.575$  ; where 0.89 is the known efficiency of stage 1, F is a correction factor for the actual weight of clinker and 1/1.575 is the conversion factor from ton of feed to ton of clinker all of which will be incorporated into the software for the emissions measurement instrumentation).
  - h. Daily NO<sub>x</sub>, SO<sub>x</sub>, CO, VOC emissions of Kiln Q2 (in units of pounds and pounds per ton of clinker).
  - i. Missing CEMS data substituted as per 40 CFR 75 Subpart D.
12. The District shall approve of the number, placement, access to, and the material of construction for all sampling ports, lines and permanent probes. The District shall also approve any and all utilities which may be necessary for any and all sample collections and measurements required for compliance demonstrations.

13. This equipment may be fired with alternative, engineered and supplemental fuels. Any use of alternative, engineered or supplemental fuels shall be reflected on the daily log on an individual category basis, including date of use, amount used, rate of use, and cumulative annual use to date. Alternative, engineered and supplemental fuels shall be limited to those materials which can be characterized as not solid waste when combusted non-hazardous secondary materials as defined by 40 CFR section 241.3(b), verified by written certification from the supplier (or the equivalent), and which certification will be retained as part of the log. The following materials and rates are allowed:
- a. From Cemex California operations including containers: dust collector bags, absorbents, adsorbents, lubricants, shop rags, used oil filters and LUST remediation sand – as up to 5.5 lb/ton of kiln feed
  - b. Tire Derived Fuel (TDF) (including whole and shredded tires with or without the steel belt material (tire fluff)) – as up to 29% of the total Btu kiln feed rate for any hour or 26% on a 24-hour average basis (the TDF may be injected/catapulted into the front end of the kiln, or introduced at the kiln feed shelf via a chute, or suspended in the tertiary air combustor (TAC) in the tertiary air duct (TAD))
  - c. Plastics\* (including polyethylene plastics used in agriculture and silviculture which may include incidental amounts of chlorinated plastics)
  - d. Biosolids – at up to 10.5 tons per hour (introduced into the kiln pneumatically with fully enclosed ducts or tubing)
  - e. Cellulosic Biomass Untreated\* (including untreated lumber, tree stumps, tree limbs, slash, bark, sawdust, sander dust, wood chip scraps, wood scraps, wood slabs, wood millings, wood shavings and processed pellets made from wood or other forest residue) – as up to 40% of the total Btu kiln feed rate on a 24 hour average basis (injected/catapulted into the front end of the kiln, or introduced at the kiln feed shelf via a chute, or suspended in the TAC in the TAD)
  - f. Refuse Derived Fuels (RDF) (generated from residential domestic waste and other non-hazardous waste, and including post-recycled paper, cardboard, plastics, and fabrics) – at up to 20 tons per hour (introduced pneumatically with fully enclosed ducts or tubing into the calciner or kiln front end)
  - g. Horse Bedding\* (including wood chips, horse urine and horse manure that is blended with saw dust as needed)
  - h. Cellulosic Biomass Treated\* (including preservative treated wood (which may include treatments such as creosote, copper-chromium-arsenic (CCA), alkaline-copper-quaternary (ACQ)), painted wood, resinated woods (plywood, particle board, medium density fiberboard, oriented strand board, laminated beams, finger-jointed trim and other sheet goods))
  - i. Roofing Material\* (including non-asbestos containing roofing shingles and related roofing materials with the bulk of the incombustible grit material removed)
  - j. Agricultural Biogenic Materials\* (including pistachio shells, almond shells, peanut hulls, rice hulls, corn husks, citrus peels, cotton gin by-products, animal bedding and other similar types of materials)
  - k. Carpet Derived Fuel\* (including shredded new, reject or used carpet materials)
  - l. Alternative Fuel Mix\* (including a blended combination of otherwise allowed materials)
  - m. Engineered Fuel\* (fuel engineered to have targeted, consistent fuel properties such as caloric value, moisture, particle size, ash content and volatility. Controlled

through blending of non-hazardous combustible materials or through separation of non-hazardous incombustible materials from combustible materials. Engineered largely from post recycled paper, cardboard, plastics, fabrics, animal meal, automotive manufacturing secondary material, clean-up debris from natural disasters, processed municipal solid waste, paint filter cake, non-infectious hospital materials, pharmaceuticals, cosmetics and confiscated narcotics.

- n. Additional Non-Hazardous Alternative Fuels Not Specifically Listed\* (non-hazardous alternative fuels not otherwise listed that burn with similar characteristics to the fuels already authorized, do not cause an increase in any regulated pollutant emissions, and do not contain hazardous metals or chlorine in concentrations above those found in the fuels already authorized).
  - o. Kiln Q2 may use furnace ash generated from incineration of sewage and spent abrasive blasting material as alternate sources of silica, iron or alumina. Authority for this condition is subject to the conditions included in California Department of Toxic Substances Control Variance, serial number V-091-2 ATD/ATU and is valid only when the variance is in effect. A protocol for the air emissions testing at the conclusion of the demonstration period shall be approved by the District and the District shall be notified 10 days prior to the actual start of the testing.
14. This unit may be fueled or fired with coal, natural gas, fuel oil, petroleum coke, alternative fuel, supplemental fuel and engineered fuel (as specifically allowed in these conditions). All emission limitations specified in these conditions apply irrespective of fuel or fuel mixture. A source test is required for each alternative, supplemental or engineered fuel at the maximum hourly burn rate to ensure continued compliance with 40 CFR 63, Subpart LLL and to quantify toxic emissions for the AB2588 Hot Spots program. This source test is required prior to the introduction of 30,000 tons of each alternative, supplemental or engineered fuel marked with an asterisk (\*) in these conditions.  
[District Rule 1303]
15. This o/o shall perform the following compliance test in accordance with District approved test plan and the MDAQMD Compliance Test Procedural Manual. The following compliance tests are required once every twelve (12) months:
- a. VOC (Q2 main kiln stack) as CH<sub>4</sub> in ppmvd, lbs/hr and lbs/ton of clinker (measured per USEPA Reference Methods 25A and 18 or the equivalent); and,
  - b. TSP (Q2 main kiln stack) in mg/m<sup>3</sup>, lbs/hr and lbs/ton of clinker (measured per USEPA Reference Method 5 and 202, or CARB Method 5)
  - c. Dioxins/Furans (D/F) tests shall occur at a minimum of once every 30 calendar months from the date of the preceding test; fuel input to Kiln Q2 shall NTE 15 tph [40 CFR 63 Subpart LLL 63.1349]. These tests shall be conducted per USEPA Reference Method 23 of Appendix A to 40 CFR Part 60, the limit is 0.20 ng/dscm (8.7 x10<sup>-11</sup> gr per dscf) (TEQ); results shall be provided in ng per dscm (TEQ).  
[District Rule 204; 40 CFR 63 Subpart LLL]

The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the

compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).

Source testing for alternative, supplemental and engineered fuels shall be performed at the maximum desired hourly feed rate of each fuel and:

- a. Shall include dioxin/furan (and HCl when HCl emissions are not continuously monitored) using EPA method 23 and otherwise pursuant to 40 CFR 63 Subpart LLL.
- b. Shall include all other air toxic emissions pursuant to 40 CFR 63 Subpart LLL and/or CARB/EPA test methods for those compounds associated with cement manufacturing per the AB2588 Hot Spots Program.
- c. If the results of the source test indicate that there is no increase in air toxic emissions, then no further action is required. If the results of the source test indicate that there is an increase in air toxic emissions, the o/o shall conduct a Prioritization Score analysis pursuant to the most recently approved CAPCOA Facility Prioritization Guidelines, the most recently approved OEHHA Unit Risk Factor for cancer potency factors, and the most recently approved OEHHA Reference Exposure Levels for non-cancer acute and non-cancer chronic factors. If all Prioritization Scores indicate that the Kiln is categorized as Low or Intermediate Priority no further action is required. If the Prioritization Score indicates that the Kiln is categorized High Priority, the o/o shall conduct a Health Risk Assessment pursuant to District Rule 1320 and adhere to the requirements and procedures of that rule.

[District Rules 1302 and 1320; 40 CFR 63 Subpart LLL]

16. The o/o shall comply with good pollution control practices at Kiln Q2 in accordance with 40 CFR 60.11(d) during kiln operation (kiln combustion).

[District Rule 204; 40 CFR 60.11(d)]

17. By January 30 and July 30 of each year, the o/o shall submit a semi-annual report to the District and USEPA for the preceding six months that includes the following (and shall retain on-site and provide to District, State or Federal personnel upon request this information until directed to cease such retention by the above-referenced consent decree):
  - a. All CEMS data;
  - b. Demonstration of compliance with all applicable rolling 30-day average limits;
  - c. Demonstration of compliance with all daily limits;
  - d. Status of permit (including FOP) applications and permit modifications, and
  - e. The description of any non-compliance with the above-referenced consent decree, the cause, and remedial steps taken or proposed.

[District Rules 204 and 1203]

18. The o/o shall introduce sufficient 19% aqueous ammonia as part of a selective non-catalytic reduction (SNCR) system at injection points shown on Cemex Drawings 530-16-02-002 and 530-16-02-003 to ensure compliance with the NOx emission limits specified above.

[District Rule 204]

19. The emissions from this Kiln Q2 on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits:
  - a. SO<sub>2</sub> - 1,540 lbs (verified by CEMS and CERMS)
  - b. CO - 12,760 lbs (verified by CEMS and CERMS)[Case No. ED CV 07-00223-GW (JCRx) CONSENT DECREE]

**b. C000094 – BAGHOUSE (FBH1)**

*EQUIPMENT DESCRIPTION: a Mikro Pul PulseAire model 221-10-100 TR pulsejet type baghouse with 221 polyester bags, each measuring 4.63" diameter x 42" long. Cloth area is 936 ft<sup>2</sup>, air flow is 12,000 ACFM. Air to Cloth ratio is 12.8:1. Fan motor is rated at 350 hp. Exhaust temperature is 150 F.*

*Unit serves Coal Mill #1. Shares common exhaust stack with FBH2, permitted under C010581.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Coal Mill No. 1 under District Permit B001083.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Quarterly inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.  
[40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 64.7(d)]
4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants.  
[District Rule 204; 40 CFR 60.250]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty (20) percent opacity.  
[District Rule 204; 40 CFR 60.254(a)].
6. This baghouse shall discharge no more than 3.66 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions.  
[District Rule 204]
9. The pollutant-specific emission unit (B001083), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 1.5 and 5.5 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**c. C001090 – BAGHOUSE (GBH2)**

*EQUIPMENT DESCRIPTION: Serving Kiln 2Q (B001083). Mikro Pul Reverse air type with 2,592 glass bags, each measuring 11-1/2" diameter x 378" long. Gross cloth area 245,692 sq.ft., 400,000 ACFM at 400 degrees F. Air to Cloth ratio is 1.62:1. Four 30 hp heat exchanger fans, one 125 hp 30,878 ACFM collapse blower and one Solvent-Ventec type DX239 3TD8A, 1,475 hp exhaust fan, 34F1, discharging to atmosphere via stack at 400,000 ACFM and 400 degrees F.*

*Facility has specified that the normal operating range for pressure differential is between 0 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which

produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with Kiln 2Q under District Permit B001083.  
[District Rule 204]
3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District on request. The log shall be kept for a minimum period of five years.  
[District Rules 204 and 1203]
4. PM shall be continuously monitored with a properly functioning PM Continuous Parametric Monitoring System (CPMS), maintained and calibrated in accordance with the manufactures requirements and the requirements of subsection 63.1350(b).  
[District Rule 1302]
5. Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this clinker cooler baghouse shall not exceed 0.07 lb/ton of clinker as verified by annual source testing.  
[40 CFR Part 63 Subpart LLL Section 63.1343]
6. The owner/operator shall conduct PM performance tests at a minimum of once every twelve (12) months. Tests shall be performed in accordance with EPA Method 5 or 5I and Method 202 (for Condensable PM quantification), and consist of three 1- hr tests. Test results shall indicate that baghouse stack emissions of filterable PM are no more than 0.07 lbs/Ton - Clinker as required by subpart LLL and Condition 5 above.  
[District Rule 204; 40 CFR 63 Subpart LLL]
7. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204]
8. This Baghouse is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]
9. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**d. C001091 – BAGHOUSE (GGF2)**

*EQUIPMENT DESCRIPTION: Kiln 2 Clinker Cooler Baghouse, Lurgi DS Model 2x4/4 DDS 28/N, Gravel Bed Type, with a Design Gas Flow rate of 425000 cubic meters (150,000 ACFM) per hour at an inlet temperature of 255 Degrees C. Total number of bags is 2080; material is Quartz; length is 5500 mm; diameter is 160mm; total filtration area is 5750 square meters; total number of Cages is 2080; Compressed Air Consumption (average) 87 Nm/h; Compressed Air Pressure for CLEANING 4 Bars; Compressed Air Pressure for ACTUATORS 7 Bars; Bag Cleaning on demand differential Pressure controller; Serves Kiln Q2 (B001083), Fan motor rated at 1475 hp, Exhaust temperature is 280 F.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Kiln Q2 under District Permit B001083.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Quarterly bag and bag suspension system inspection date and results;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation;
  - e. Date of bag replacements;
  - f. Date and nature of any system repairs; and,
  - g. PM emissions in lb/ton of clinker (per condition 8).[District Rule 1302; 40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. This air pollution control device shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.  
[District Rule 1302]
5. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60



Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.

[District Rule 204]

6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR Part 63 Subpart LLL Section 63.1345]
7. This air pollution control device shall discharge no more than 2.14 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.  
[District Rule 1303 - NSR Requirements]
8. Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this clinker cooler baghouse shall not exceed 0.07 lb/ton of clinker as verified by annual source testing.  
[40 CFR Part 63 Subpart LLL Section 63.1343]
9. PM shall be continuously monitored with a properly functioning PM Continuous Parametric Monitoring System (CPMS), maintained and calibrated in accordance with the manufactures requirements and the requirements of subsection 63.1350(b).  
[District Rule 1302]
10. The owner/operator shall conduct PM performance tests at a minimum of once every twelve (12) months. Tests shall be performed in accordance with EPA Method 5 or 5I and Method 202 (for Condensable quantification), and consist of three 1-hr tests. Test results shall indicate that baghouse stack emissions of filterable PM are no more than 0.07 Lbs/Ton - Clinker as required by subpart LLL and Condition 10 above.  
[District Rule 204; 40 CFR 63 Subpart LLL]
11. The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).  
[District Rule 204]
12. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.  
[District Rule 1302]
13. The pollutant-specific emission unit (B001083), for which this baghouse controls is subject

to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 1 and 5 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:

- a. Inspect the affected equipment;
- b. Initiate a corrective action, within 24 hours; and
- c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.

[40 CFR 64.7(d)]

e. **C001299 – BAGHOUSE (EBH5)**

*EQUIPMENT DESCRIPTION: Flex Kleen pulsejet type with 64 felted polyester bags, each measuring 5.84" diameter x 120" long. Cloth area is 978 sq.ft., air flow is 5,500 ACFM. Air to Cloth ratio is 5.6:1. 30 hp exhaust fan and 3/4 hp rotary air lock.*

*Serving Kiln Q2 raw material feed (B001083).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Kiln 2Q Raw Material Feed (B001083).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**f. C010581 – BAGHOUSE (FBH2)**

*EQUIPMENT DESCRIPTION: a Mikro Pul PulseAire model 221-10-100 TR pulsejet type baghouse with 221 polyester bags, each measuring 4.63" diameter x 42" long. Cloth area is 936 ft<sup>2</sup>, air flow is 12,000 ACFM. Air to Cloth ratio is 12.8:1. Fan motor is rated at 100 hp. Exhaust temperature is 150 F.*

*Unit serves Coal Mill #3 permitted under permit B001083.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Coal Mill No. 3 (B001083).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. Monthly reading of baghouse pressure drop, date and value;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are

observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- d. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
  
- 4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants.  
[District Rule 204; 40 CFR 60.250]
  
- 5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity.  
[District Rule 401; 40 CFR 60.252(c)]
  
- 6. This baghouse shall discharge no more than 1.03 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
  
- 7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]
  
- 8. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]

**g. B001085 – COAL/COKE UNLOADING & TRANSFER SYSTEM**

*EQUIPMENT DESCRIPTION: Bins 1 and 2*

75.0	<i>hp</i>	<i>Belt Conveyor (FBC2)</i>
75.0	<i>hp</i>	<i>Total</i>

- 1. Materials processed shall contain sufficient natural moisture to ensure compliance with Rule 401, 402, and 403. Water equipment to properly wet dried out material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.  
[District Rules 204, 401, 402, and 403]

**h. B001264 – COAL UNLOADING SYSTEM**

*EQUIPMENT DESCRIPTION: Railroad car, unloading hoppers #1 and #2, belt feeders (ffb2bf and ffb1bf), diverter chute (fbc12gc), belt conveyors (fbc12, fbc13), stacker reclaimer (fbc13S) and drag chain (fbc13sdc).*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. Materials processed shall contain sufficient natural moisture to ensure compliance with Rule 401, 402, and 403. Water equipment to properly wet dried out material being processed shall be maintained in operable condition on the site and used as necessary to assure compliance.  
[District Rules 204, 401, 402, and 403]

**i. B001672 – CLINKER TRANSFER SYSTEM TO OUTSIDE STORAGE**

*EQUIPMENT DESCRIPTION: Control: C004871 (HBH23) Conveyor - HBC1 Stacker - HBC2*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C004871.  
[District Rules 204, 401, 402, and 403]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**j. C004870 – BAGHOUSE (HBH29)**

*EQUIPMENT DESCRIPTION: Industrial Accessories Co. model 120TB-BHT-81:S6 pulsejet type baghouse with 81 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 1,224 ft<sup>2</sup>, air flow is 7,500 ACFM at 200 deg F. Air to Cloth ratio is 6.1:1. Fan motor is rated at 20 hp. Exhaust temperature is 200 F.*

*Unit serves Clinker Storage Hall HH1.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Storage Hall HH1 (B007709).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.64 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**k. B007709 – CLINKER STORAGE SYSTEM**

*EQUIPMENT DESCRIPTION: 120,000 short ton clinker storage hall HHI and:*

<i>n/a</i>	<i>hp</i>	<i>Belt Conveyor (HBC12)</i>
<i>n/a</i>	<i>hp</i>	<i>Weigh Feeders (HBC12WF1 and 2)</i>
<i>n/a</i>	<i>hp</i>	<i>Vibratory Feeders (HBC12VF5-8)</i>
<i>n/a</i>	<i>hp</i>	<i>Vibratory Feeders (HBC12VF10-12)</i>
<i>n/a</i>	<i>hp</i>	<i>Distribution Belt (HBC15T)</i>
<i>n/a</i>	<i>hp</i>	<i>Reclaimer Belt (HBC17)</i>
<i>n/a</i>	<i>hp</i>	<i>8 Reclaimer Vibratory Feeders (HBC17VF1 through 8)</i>
<i>n/a</i>	<i>hp</i>	<i>Screw Conveyors, Baghouse (HBH26SC1 and 2)</i>
<i>n/a</i>	<i>hp</i>	<i>Screw Conveyors, Baghouse (HBH27SC1 and 2)</i>
<i>n/a</i>	<i>hp</i>	<i>Pan Conveyor (HPC5)</i>
<hr/>		
<i>225.0</i>	<i>hp</i>	<i>Estimated Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated without being vented to the baghouses with District permits C008821 (HBH26) or C008822 (HBH27), C008823 (HBH28) and C004870 (HBH29).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a) Monthly (or as otherwise allowed by 40 CFR 63.1350) one minute per building side, roof and vent observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); and,
  - b) Date and nature of any equipment/enclosure repairs.[District Rules 204 and 1203]
4. This equipment shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This equipment (including each side, roof and vent of any buildings) shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 204; 40 CFR 63.1348]

6. Temporary piles of clinker that result from accidental spillage or clinker storage cleaning operations must be cleaned up within 3 days. Should the 3 days be exceeded, facility will be required to submit an application for an outdoor/open clinker storage piles permit which accurately reflects the requirements of 40 CFR 63 Subpart LLL.  
[District Rule 204; 40 CFR 63.1343(c)]

## **I. C004871 – BAGHOUSE (HBH23)**

*EQUIPMENT DESCRIPTION: an Industrial Accessories Co. model 106-TBI-320:S6 pulsejet type baghouse with 81 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 1,224 ft<sup>2</sup>, air flow is 7,500 ACFM. Air to Cloth ratio is 6.1:1. Fan motor is rated at 15 hp. Exhaust temperature is 150 F.*

*Unit serves Rail Loadout System permitted under B000085.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Rail Loadout System permitted under B000085.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63



Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.64 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**m. B001673 – CLINKER TRANSFER SYSTEM – STORAGE SILO NO. 1**

*EQUIPMENT DESCRIPTION: Control: C001301 HBH3) 20 hp.*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001301.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**n. C001301 – BAGHOUSE (HBH3)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120-BVTC-36(III) pulsejet type baghouse with 48 polyester felt bags, each measuring 5.84" diameter x 120" long. Cloth area is 733 ft<sup>2</sup>, air flow is 2,600 ACFM. Air to Cloth ratio is 3.5:1. Fan motor is rated at 20 hp.*

*Unit serves North Silo #1 permitted under B001673.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the North Silo #1 permitted under B001673.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.64 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.

[District Rule 204]

**o. B001674 – CLINKER TRANSFER SYSTEM – STORAGE SILO NO. 2**

*EQUIPMENT DESCRIPTION: Control: C001302 (HBH4) 25 hp.*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001302.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**p. C001302 – BAGHOUSE (HBH4)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120-WRTC-64(III) pulsejet type baghouse with 64 polyester felt bags, each measuring 5.84" diameter x 120" long. Cloth area is 998 ft<sup>2</sup>, air flow is 4,600 ACFM. Air to Cloth ratio is 4.7:1. Fan motor is rated at 25 hp.*

*Unit serves South Clinker Storage Silo permitted under B001674.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Kiln 2Q Raw Material Feed (B001083).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;

- b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
- 4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
- 5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
- 6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
- 7. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**q. B001675 – CLINKER TRANSFER SYSTEM (STORAGE DOME/HALL)**

*EQUIPMENT DESCRIPTION:*

<i>n/a</i>	<i>hp</i>	<i>Pan Conveyor- HPC1</i>
<i>n/a</i>	<i>hp</i>	<i>Pan Conveyor- HPC2</i>
<i>n/a</i>	<i>hp</i>	<i>Pan Conveyor- HPC3</i>
<i>150.0</i>	<i>hp</i>	<i>Estimated Total</i>

- 1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
- 2. This equipment shall not be operated without being vented to the baghouses with District permits C001297 (HBH1A), C001303 (HBH1B) and C008824 (HBH1C).  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. Monthly (or as otherwise allowed by 40 CFR 63.1350) one-minute observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); and,
  - b. Date and nature of any equipment/enclosure repairs.  
[District Rules 204 and 1203]
4. This equipment shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 204; 40 CFR 63.1348]

**r. C001297 – BAGHOUSE (HBH1A)**

*EQUIPMENT DESCRIPTION: Industrial Accessories Co. model TMBHT-49:S6 pulsejet type baghouse with 49 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 740 ft<sup>2</sup>, air flow is 5,000 ACFM at 200 deg F. Air to Cloth ratio is 6.8:1. Fan motor is rated at 25 hp. Exhaust temperature is 200 F.*

*Unit serves Pan Conveyor HPC1 transfer to HBC4 and HBC5 permitted under B001675*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the pan conveyor HPC1 (B001675).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test),

and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.43 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**s. C001298 – BAGHOUSE (HBH2)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 120-WATC-96(III) pulsejet type baghouse with 96 polyester felt bags, each measuring 5.84" diameter x 120" long. Cloth area is 1,467 ft<sup>2</sup>, air flow is 8,000 ACFM. Air to Cloth ratio is 4.4:1. Fan motor is rated at 40 hp.*

*Unit serves Clinker Storage Dome permitted under B001675*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Clinker Storage Dome permitted under B001675.

[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

t. **C001303 – BAGHOUSE (HBH1B)**

*EQUIPMENT DESCRIPTION: Industrial Accessories Co. model TMBHT-49:S6 pulsejet type baghouse with 49 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 740 ft<sup>2</sup>, air flow is 5,000 ACFM at 200 deg F. Air to Cloth ratio is 6.8:1. Fan motor is rated at 25 hp. Exhaust temperature is 200 F.*

*Unit serves Pan Conveyor HPC2 transfer to HBC5 and HBC16 transfer to HBC5 permitted under B001675.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the pan conveyor HPC2 (B001675).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.43 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]



**u. C008821 – BAGHOUSE (HBH26)**

*EQUIPMENT DESCRIPTION: an Industrial Accessories Co. model 120-TBI-304:S6 pulsejet type baghouse with 320 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 4,835 ft<sup>2</sup>, air flow is 37,500 ACFM. Air to Cloth ratio is 7.8:1. Fan motor is rated at 125 hp. Exhaust temperature 150 F.*

*Unit serves Clinker Storage Hall HH1 permitted under B007709.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Storage Hall (B007709).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 3.21 pounds per hour of PM<sub>10</sub> at a maximum

concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rule 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

[District Rule 204]

[District Rule 204]

v. **C008822 – BAGHOUSE (HBH27)**

*EQUIPMENT DESCRIPTION: an Industrial Accessories Co. model 120-TBI-304:S6 pulsejet type baghouse with 320 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 4,835 ft<sup>2</sup>, air flow is 37,500 ACFM. Air to Cloth ratio is 7.8:1. Fan motor is rated at 125 hp. Exhaust temperature is 150 F.*

*Unit serves Clinker Storage Hall HH1 permitted under B007709.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Storage Hall (B007709).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Annual inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 3.21 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
9. The pollutant-specific emission unit (B007709), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 1.5 and 5.5 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**w. C008823 – BAGHOUSE (HBH28)**

*EQUIPMENT DESCRIPTION: an Industrial Accessories Co. model 120-TBI-304:S6 pulsejet type baghouse with 156 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 2,357 ft<sup>2</sup>, air flow is 15,000 ACFM. Air to Cloth ratio is 6.4:1. Fan motor is rated at 60 hp. Exhaust temperature is 200 F. Stack 1.5 ft dia x 339 ft L*

*Unit serves Clinker Storage Hall HH1 - HBC17 permitted under B007709.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Storage Hall (B007709).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a) A site-specific opacity monitoring plan;
  - b) Bags and bag suspension system inspection (quarterly);
  - c) Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d) Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 204)].
6. This baghouse shall discharge no more than 3.21 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303].
7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions.  
[District Rule 204]

**x. C008824 – BAGHOUSE (HBH1C)**

*EQUIPMENT DESCRIPTION: an Industrial Accessories Co. model TMBHT-49:S6 pulsejet type baghouse with 49 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 740 ft<sup>2</sup>, air flow is 5,000 ACFM at 200 deg F. Air to Cloth ratio is 6.8:1. Fan motor is rated at 25 hp. Exhaust temperature is 200 F.*

*Unit serves Pan Conveyor HPC3 transfer to HBC4 and Pan Conveyor HPC3 transfer to HBC5 permitted under B001675.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5.0 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the pan conveyor HPC3 (B001675).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]

6. This baghouse shall discharge no more than 0.43 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
 [District Rule 204 and 1303]
  
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
 [District Rule 204]

**y. T001997 – CLINKER STORAGE (1104)**

*EQUIPMENT DESCRIPTION:*

<i>1055000.0</i>	<i>gallons</i>	<i>Clinker Silo, North – 141 MCF</i>
<i>1055000.0</i>	<i>gallons</i>	<i>Clinker Silo, South – 141 MCF</i>
<i>0.0</i>	<i>gallons</i>	<i>Clinker Dome (pile)</i>
<i>2110000.0</i>	<i>gallons</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
 [District Rule 204]
  
2. The Clinker Silos shall not be filled unless they are vented to the appropriate functioning air pollution control equipment covered by valid District permit Nos. C001301 and C001302, each of which are included under B001673 and B001674, respectively.  
 [District Rule 204]

**z. B002709 – BULK TRUCK & SUPER SACK LOADOUT FACILITY**

*EQUIPMENT DESCRIPTION: For dust from Kiln 1Q. Control: C002710 (GWDBH).*

Rating	Equipment Description
0.0 bhp	Airslide, 16” & 18’
5.0 bhp	Blower IAP, model 11-15, 460 CFM - GWDACB
1.0 bhp	Telescoping Loading Spout, 12” ID, 3’10” retracted length with 9’ travel. Two Budget Cat B356-1R 500 lb capacity, ½ hp hoists
<b>6.0 bhp</b>	<b>Total</b>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
 [District Rule 204]

2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C002710.  
[District Rule 204]

**aa. C002710 – BAGHOUSE (GWDBH)**

*EQUIPMENT DESCRIPTION: Serving 1Q Bulk Kiln Dust Loadout System (B002709).*

*GWDBH - Dust Collector, Fabric, WW SLY Model PS-5, 440 ft<sup>2</sup> with Shaker, Flow Rate: 1,460 CFM @ 110 degrees F; 5.33 hp. GWDBHF - Fan, integral with GWDBH; 5 hp.*

*Facility has specified that the normal operating range for pressure differential is between TBD inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with 1Q Bulk Kiln Dust Loadout System (B002709).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]

6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV. [District Rule 204]

**bb. T010582 – COAL BINS**

*EQUIPMENT DESCRIPTION: Five coal bins operating in conjunction with coal mills 1 through 3 (B001083) and 4 (B005362).*

Capacity	Equipment Name
19.7	80 ton (19,700 gallon) raw coal bin - FCB1
24.6	100 ton (24,600 gallon) raw coal bin - FCB2
6.2	25 ton (6200 gallon) pulverized coal bin - FPFB1
6.2	25 ton (6200 gallon) pulverized coal bin - FPFB2
6.2	25 ton (6200 gallon) pulverized coal bin - FPFB3

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [District Rule 204]
2. FPFB1, FPFB2 and FPFB3 shall not be operated unless it is vented through attached bin vent (FPFB1V, FPFB2V, and FPFB3V respectively) when accepting pneumatic fill. [District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a) Monthly (or less frequently if allowed by a 40 CFR 63.1350 operations and maintenance plan) observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
 [District Rule 204]
4. This equipment shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants. [District Rule 204; 40 CFR 60.250]

**cc. C010577 – BAGHOUSE (FPFB1V)**



*EQUIPMENT DESCRIPTION: a Mikro Pul PulseAire model 12-6-50 TR pulsejet type baghouse with 12 polyester bags, each measuring 4.63" diameter x 42" long. Cloth area is 51 ft<sup>2</sup>, air flow is 75 ACFM. Air to Cloth ratio is 1.5:1. Fan motor is rated at 3 hp. Exhaust temperature is 150 F.*

*Unit serves Pulverized Coal Bin, FPFB1 permitted under permit T010582.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with pulverized coal bin FPFB1 (T010582).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. Monthly reading of baghouse pressure drop, date and value;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants.  
[District Rule 204; 40 CFR 60.250]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity.  
[District Rule 401; 40 CFR 60.252(c)]
6. This baghouse shall discharge no more than 0.01 pounds per hour of PM<sub>10</sub> at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**dd. C010578 – BAGHOUSE (FPFB2V)**

*EQUIPMENT DESCRIPTION: a Mikro Pul PulseAire model 12-6-50 TR pulsejet type baghouse with 12 polyester bags, each measuring 4.63" diameter x 42" long. Cloth area is 51 ft<sup>2</sup>, air flow is 75 ACFM. Air to Cloth ratio is 1.5:1. Fan motor is rated at 3 hp. Exhaust temperature is 150 F.*

*Unit serves Pulverized Coal Bin, FPFB2 permitted under permit T010582.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with pulverized coal bin FPFB2 (T010582).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. Monthly reading of baghouse pressure drop, date and value;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants.  
[District Rule 204; 40 CFR 60.250]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity.  
[District Rule 401; 40 CFR 60.252(c)]

6. This baghouse shall discharge no more than 0.01 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

**ee. C010579 – BAGHOUSE (FPFB3V)**

*EQUIPMENT DESCRIPTION: a Mikro Pul PulseAire model 12-6-50 TR pulsejet type baghouse with 12 polyester bags, each measuring 4.63" diameter x 42" long. Cloth area is 51 ft<sup>2</sup>, air flow is 75 ACFM. Air to Cloth ratio is 1.5:1. Fan motor is rated at 3 hp. Exhaust temperature is 150 F.*

*Unit serves Pulverized Coal Bin, FPFB3 permitted under permit T010582.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with pulverized coal bin FPFB3 (T010582).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. Monthly reading of baghouse pressure drop, date and value;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60

Subpart Y - Standards of Performance for Coal Preparation Plants.  
[District Rule 204; 40 CFR 60.250]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity.  
[District Rule 401; 40 CFR 60.252(c)]
6. This baghouse shall discharge no more than 0.01 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]

## ***D) GROUP #3B – CLINKER BURNING & COOLING***

### **a. B005362 – KILN (Q3) AND CLINKER COOLER SYSTEM**

*EQUIPMENT DESCRIPTION: Coal milling, a pre-heater/pre-calciner kiln, and a clinker cooler assembly. Note that horsepower ratings have been converted to heat input assuming 2550 Btu per horsepower.*

0	<i>btu/hp-hr</i>	<i>Kiln Feed Systems</i>
0	<i>btu/hp-hr</i>	<i>Belt Conveyors</i>
0	<i>btu/hp-hr</i>	<i>Elevator</i>
0	<i>btu/hp-hr</i>	<i>Calibration System</i>
0	<i>btu/hp-hr</i>	<i>Dust Return System</i>
0	<i>btu/hp-hr</i>	<i>Pre-Calciner</i>
0	<i>btu/hp-hr</i>	<i>Pre-Heater</i>
625	<i>btu/hp-hr</i>	<i>Kiln (Q3), which is rated at 625 millions Btu/h input</i>
0	<i>btu/hp-hr</i>	<i>Induced Draft Fan</i>
0	<i>btu/hp-hr</i>	<i>Clinker Cooler (Vent-less)</i>
0	<i>btu/hp-hr</i>	<i>Clinker Cooler Cyclone Separator</i>
0	<i>btu/hp-hr</i>	<i>Clinker Cooler Heat Exchanger</i>
0	<i>btu/hp-hr</i>	<i>Pan Conveyor</i>
0	<i>btu/hp-hr</i>	<i>Screw Conveyors</i>
0	<i>btu/hp-hr</i>	<i>Feeders</i>
0	<i>btu/hp-hr</i>	<i>Coal Mill (Raymond Mill FCM4 Bin)</i>

0	<i>btu/hp-hr</i>	<i>Primary Air Fan</i>
0	<i>btu/hp-hr</i>	<i>Drag Conveyors</i>
0	<i>btu/hp-hr</i>	<i>Clinker Breakers</i>
0	<i>btu/hp-hr</i>	<i>Clinker Cooler Fans</i>
0	<i>btu/hp-hr</i>	<i>Discharge Gate Drives</i>
22.95	<i>btu/hp-hr</i>	<i>Total</i>

1. The owner/operator (o/o) shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted in other conditions hereon. [District Rule 204]
  
2. This equipment shall not be operated unless it is vented to the properly functioning baghouses GBH3, HBH25, FBH4 under valid District permit numbers C007368, C007347, C007359. [District Rule 204]
  
3. The sulfur content requirements of Rule 431 shall be complied with through the SOx emissions limits presented below, in accordance with Rule 431(g). [District Rules 204 and 431]
  
4. The emissions from Kiln Q3, on any fuel or mix of fuels, shall not exceed any of the following mass limits in pounds per ton of clinker, calculated on a rolling 30 calendar day average basis and verified by CEMS and CERMS data:
  - a. NOx - 1.95
  - b. SOx (as SO2) - 0.35
  - c. VOC - 0.12
  - d. TSP (Kiln Stack) - 0.14 (Total PM; Filterable and Condensable)
  - e. PM - 0.07 (Filterable PM; pursuant to Subpart LLL)
  - f. CO - 2.9
 [Case No. ED CV 07-00223-GW (JCRx) CONSENT DECREE; 40 CFR 63 Subpart LLL]
  
5. The requirements for oxides of nitrogen above shall not apply during start-up, during the first 36 hours of operation following start-up, or during the 36 hours immediately preceding shut-down. During those calendar days with hours of start-up and shutdown activity, the total oxides of nitrogen from Q2 and Q3 shall not exceed those described below. [District Rule 204]
  
6. The combined NOx emissions from Kilns Q2 and Q3, on any fuel or mix of fuels, shall not exceed 19,314 lbs. per Day of Operation, defined as midnight to midnight. [Case No. ED CV 07-00223-GW (JCRx) CONSENT DECREE]
  
7. The combined emissions from all permitted combustion sources, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty

(30) day arithmetic average basis:

- a. NO<sub>x</sub> - 19,314 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources) on and after October 1, 2009
- b. SO<sub>x</sub> - 4,220 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
- c. CO - 27,522 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
- d. VOC - 2,139 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources )
- e. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
- f. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)

[District Rule 204]

8. The daily emissions for each operating day for kiln Q3 shall be recorded and/or calculated in a manner approved by the District. The data shall be submitted to the District within 30 days of the end of each calendar quarter.
9. The emissions of CO, NO<sub>x</sub>, SO<sub>x</sub> and O<sub>2</sub> shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas volumetric flow rate shall be monitored using a Continuous Emission Rate Monitoring System (CERMS). This equipment shall be operated in compliance with a District-approved 40 CFR 60 Appendix F CEMS/CERMS quality assurance and operational protocol.
10. The following are the acceptability testing requirements for the CEMS, and CERMS:
  - a. For SO<sub>2</sub> and NO<sub>x</sub> CEMS - Performance Specification 2 of 40 CFR 60, appendix
  - b. For O<sub>2</sub> CEMS - Performance Specification 3 of 40 CFR 60, appendix B;
  - c. For CO CEMS - Performance Specification 4 of 40 CFR 60, appendix B; and
  - d. For CERMS - Performance Specification 6 of 40 CFR 60, appendix B; CEMS and CERMS have the same meaning as in condition 4 above.
11. The o/o shall submit a written report of excess emissions to the District Compliance Supervisor for every calendar quarter. All of these quarterly reports shall be postmarked by the 30-day following the end of the quarter.
12. The o/o shall maintain a current, on-site daily operational log for Kiln Q3 for a minimum of five (5) years, and shall provide the operations log to District, State or Federal personnel on request. The operational log shall, at a minimum, contain the information specified below:
  - a. Hours of operation, including specific hours in start-up and shutdown;
  - b. Dates of routine maintenance;
  - c. Dates of major repairs, replacements and scheduled shut-downs;
  - d. For each hour: Type of fuel being used, the Btu/h of each fuel, and the percent of total Btu feed for each fuel;

- e. Tons of raw material, excluding coal, charged to the kiln;
  - f. Mass of alternative, engineered and supplemental fuel burned, by type;
  - g. Tons of clinker produced (this datum shall be calculated by an equation similar to the following, which is used for kiln Q2:  $\text{Clinker, t/h} = \text{kiln feed scale reading} \times 0.89 \times F / 1.575$  ; where 0.89 is the known efficiency of stage 1, F is a correction factor for the actual weight of clinker and 1/1.575 is the conversion factor from ton of feed to ton of clinker all of which will be incorporated into the software for the emissions measurement instrumentation).
  - h. Daily NO<sub>x</sub>, SO<sub>x</sub>, CO, VOC emissions of Kiln Q3 (in units of pounds and pounds per ton of clinker).
  - i. Missing CEMS data substituted as per 40 CFR 75 Subpart D.
13. The District shall approve of the number, placement, access to, and the material of construction for all sampling ports, lines and permanent probes. The District shall also approve any and all utilities which may be necessary for any and all sample collections and measurements required for compliance demonstrations.
14. This unit may be fueled or fired with coal, natural gas, fuel oil, petroleum coke, alternative fuel, supplemental fuel and engineered fuel (as specifically allowed in these conditions). All emission limitations specified in these conditions apply irrespective of fuel or fuel mixture. A source test is required for each alternative, supplemental, or engineered fuel at the maximum hourly burn rate to ensure continued compliance with 40 CFR 63, Subpart LLL and to quantify toxic emissions for the AB2588 Hot Spots program. This source test is required prior to the introduction of 30,000 tons of each alternative, supplemental or engineered fuel marked with an asterisk (\*) in these conditions.
15. This equipment may be fired with alternative, engineered and supplemental fuels. Any use of alternative, engineered or supplemental fuels shall be reflected on the daily log on an individual category basis, including date of use, amount used, rate of use, and cumulative annual use to date. Alternative, engineered and supplemental fuels shall be limited to those materials which can be characterized as not solid waste when combusted non-hazardous secondary materials as defined by 40 CFR section 241.3(b), verified by written certification from the supplier (or the equivalent), and which certification will be retained as part of the log. The following materials and rates are allowed:
- a. From Cemex California operations including containers: dust collector bags, absorbents, adsorbents, lubricants, shop rags, used oil filters and LUST remediation sand – as up to 5.5 lb/ton of kiln feed
  - b. Tire Derived Fuel (TDF) (including whole and shredded tires with or without the steel belt material (tire fluff)) – as up to 29% of the total Btu kiln feed rate for any hour or 26% on a 24-hour average basis (the TDF may be injected/catapulted into the front end of the kiln, or introduced at the kiln feed shelf via a chute, or suspended in the tertiary air combustor (TAC) in the tertiary air duct (TAD)
  - c. Plastics\* (including polyethylene plastics used in agriculture and silviculture which may include incidental amounts of chlorinated plastics)
  - d. Biosolids – at up to 10.5 tons per hour (introduced into the kiln pneumatically with fully enclosed ducts or tubing)
  - e. Cellulosic Biomass Untreated\* (including untreated lumber, tree stumps, tree

- limbs, slash, bark, sawdust, sander dust, wood chip scraps, wood scraps, wood slabs, wood millings, wood shavings and processed pellets made from wood or other forest residue) – as up to 40% of the total Btu kiln feed rate on a 24 hour average basis (injected/catapulted into the front end of the kiln, or introduced at the kiln feed shelf via a chute, or suspended in the TAC in the TAD
- f. Refuse Derived Fuels (RDF) (generated from residential domestic waste and other non-hazardous waste, and including post-recycled paper, cardboard, plastics, and fabrics) – at up to 20 tons per hour (introduced pneumatically with fully enclosed dusts or tubing into the calciner or kiln front end)
  - g. Horse Bedding\* (including wood chips, horse urine and horse manure that is blended with saw dust as needed)
  - h. Cellulosic Biomass Treated\* (including preservative treated wood (which may include treatments such as creosote, copper-chromium-arsenic (CCA), alkaline-copper-quaternary (ACQ)), painted wood, resinated woods (plywood, particle board, medium density fiberboard, oriented strand board, laminated beams, finger-jointed trim and other sheet goods)
  - i. Roofing Material\* (including non-asbestos containing roofing shingles and related roofing materials with the bulk of the incombustible grit material removed)
  - j. Agricultural Biogenic Materials\* (including pistachio shells, almond shells, peanut hulls, rice hulls, corn husks, citrus peels, cotton gin by-products, animal bedding and other similar types of materials)
  - k. Carpet Derived Fuel\* (including shredded new, reject or used carpet materials)
  - l. Alternative Fuel Mix\* (including a blended combination of otherwise allowed materials)
  - m. Engineered Fuel\* (fuel engineered to have targeted, consistent fuel properties such as caloric value, moisture, particle size, ash content and volatility. Controlled through blending of non-hazardous combustible materials or through separation of non-hazardous incombustible materials from combustible materials. Engineered largely from post recycled paper, cardboard, plastics, fabrics, animal meal, automotive manufacturing secondary material, clean-up debris from natural disasters, processed municipal solid waste, paint filter cake, non-infectious hospital materials, pharmaceuticals, cosmetics and confiscated narcotics.
  - n. Additional Non-Hazardous Alternative Fuels Not Specifically Listed\* (non-hazardous alternative fuels not otherwise listed that burn with similar characteristics to the fuels already authorized, do not cause an increase in any regulated pollutant emissions, and do not contain hazardous metals or chlorine in concentrations above those found in the fuels already authorized).
16. This o/o shall perform the following compliance test in accordance with District approved test plan and the MDAQMD Compliance Test Procedural Manual. The following compliance tests are required once every twelve (12) months:
- a. VOC (Q3 main kiln stack) as CH<sub>4</sub> in ppmvd, lbs/hr and lbs/ton of clinker (measured per USEPA Reference Methods 25A and 18 or the equivalent); and,
  - b. TSP (Q3 main kiln stack) in mg/m<sup>3</sup>, lbs/hr and lbs/ton of clinker (measured per USEPA Reference Method 5 and 202, or CARB Method 5)
  - c. Dioxins/Furans (D/F) tests shall occur at a minimum of once every 30 calendar months from the date of the preceding test; fuel input to Kiln Q3 shall NTE 15 tph



[40 CFR 63 Subpart LLL 63.1349]. These tests shall be conducted per USEPA Reference Method 23 of Appendix A to 40 CFR Part 60, the limit is 0.20 ng/dscm (8.7 x10<sup>-11</sup> gr per dscf) (TEQ); results shall be provided in ng per dscm (TEQ).  
[District Rule 204; 40 CFR 63 Subpart LLL]

The owner/operator must submit a compliance/certification test protocol at least thirty (30) days prior to the compliance/certification test date. The owner/operator must conduct all required compliance/certification tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/certification test date so that an observer may be present. The final compliance/certification test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/certification test notifications, protocols, and results may be submitted electronically to [reporting@mdaqmd.ca.gov](mailto:reporting@mdaqmd.ca.gov).

Source testing for alternative, supplemental and engineered fuels shall be performed at the maximum desired hourly feed rate of each fuel and:

- a. Shall include dioxin/furan (and HCl when HCl emissions are not continuously monitored) using EPA method 23 and otherwise pursuant to 40 CFR 63 Subpart LLL.
- b. Shall include all other air toxic emissions pursuant to 40 CFR 63 Subpart LLL and/or CARB/EPA test methods for those compounds associated with cement manufacturing per the AB2588 Hot Spots Program.
- c. If the results of the source test indicate that there is no increase in air toxic emissions, then no further action is required. If the results of the source test indicate that there is an increase in air toxic emissions, the o/o shall conduct a Prioritization Score analysis pursuant to the most recently approved CAPCOA Facility Prioritization Guidelines, the most recently approved OEHHA Unit Risk Factor for cancer potency factors, and the most recently approved OEHHA Reference Exposure Levels for non-cancer acute and non-cancer chronic factors. If all Prioritization Scores indicate that the Kiln is categorized as Low or Intermediate Priority no further action is required. If the Prioritization Score indicates that the Kiln is categorized High Priority, the o/o shall conduct a Health Risk Assessment pursuant to District Rule 1320 and adhere to the requirements and procedures of that rule.

[District Rules 1302 and 1320; 40 CFR 63 Subpart LLL]

17. The o/o shall comply with good pollution control practices at Kiln Q3 in accordance with 40 CFR 60.11(d) during kiln operation (kiln combustion).  
[District Rule 204; 40 CFR 60.11(d)]
18. By January 30 and July 30 of each year, the o/o shall submit a semi-annual report to the District and USEPA for the preceding six months that includes the following (and shall retain on-site and provide to District, State or Federal personnel upon request this information until directed to cease such retention by the above-referenced consent decree):
  - a. The date on which the Kiln Q3 NO<sub>x</sub> control technology commenced continuous operation (as defined in the consent decree referenced above), or the status of installation progress including milestone dates, installation problems and

- implemented or proposed solutions;
  - b. All CEMS data;
  - c. Demonstration of compliance with all applicable rolling 30-day average limits;
  - d. Demonstration of compliance with all daily limits;
  - e. Status of permit (including FOP) applications and permit modifications, and
  - f. The description of any non-compliance with the above-referenced consent decree, the cause, and remedial steps taken or proposed.
- [District Rules 204 and 1203]

19. The o/o shall introduce sufficient 19% aqueous ammonia as part of a selective non-catalytic reduction (SNCR) system at injection points shown on Cemex Drawings 530-16-02-002 and 530-16-02-003 to ensure compliance with the NOx emission limits specified above.
- [District Rule 204]

**b. C007368 – MAIN BAGHOUSE (GBH 3 – KILN Q3 AND CLINKER COOLER SYSTEM 3Q)**

*EQUIPMENT DESCRIPTION: Fuller model 12BHCS336 reverse-air type baghouse with 4,032 Glass bags, each measuring 11.5" diameter x 438" long. Cloth area is 442,853 ft<sup>2</sup>, air flow is 639,000 ACFM at 485F. Air to Cloth ratio is 1.4:1. Fan motors are rated at 1650 hp.*

*Unit serves Q3 Kiln and Clinker Cooler.*

*Facility has specified that the normal operating range for pressure differential is between 0 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Q3 Kiln and Clinker Cooler under District Permit B005362.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Annual inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are

observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.

- e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
- 4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
- 5. This baghouse shall discharge no more than 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
- 6. The o/o shall install, operate and maintain a continuous emissions measurements and monitoring system as described in the Kiln Q-3 permit under valid District permit B005362. This device shall measure and record those parameters in the units described in that permit.  
[District Rule 204]
- 7. This baghouse shall discharge no more than 727 lb/day on a 30-day rolling average basis, pursuant to the operating conditions described above.  
[District Rule 204]
- 8. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
- 9. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
- 10. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
- 11. The pollutant-specific emission unit (B005362), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 0 and 6 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and

- c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.  
[40 CFR 64.7(d)]

**c. C007347 – BAGHOUSE – (HBH25) WHICH SERVES KILN Q-3 CLINKER COOLER SYSTEM**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-90 D6 pulsejet type baghouse with 90 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 1,359 ft<sup>2</sup>, air flow is 7,500 ACFM at 250F. Air to Cloth ratio is 5.5:1. Fan motor is rated at 40 hp. Exhaust temperature is 250 F.*

*Unit serves Q3 Kiln Clinker Pan Conveyor*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Clinker Pan Conveyor of the Kiln (Q-3)/Clinker Cooler under valid District permit number B005362.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing

Industry.

[District Rule 204; 40 CFR 63.1343]

5. This baghouse shall discharge no more than 0.48 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]

**d. C007359 – BAGHOUSE (FBH4)**

*EQUIPMENT DESCRIPTION: Mikro Pul model 226-12-50 pulsejet type baghouse with 266 Polyester bags, each measuring 4.625" diameter x 124" long. Cloth area is 3,326 ft<sup>2</sup>, air flow is 15,000 ACFM. Air to Cloth ratio is 4.5:1. Fan motor is rated at 100 hp.*

*Unit serves FCM4.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5.5 inches water column..*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with Raymond Mill FCM4 Bin; under valid District permit number B005362.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test),

and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
- 4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
- 5. This baghouse shall discharge no more than 0.48 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
- 6. This baghouse shall discharge no more than 0.5 lb/hour at a maximum concentration of 0.02 gr/dscf of TSP at the operating conditions described in the above description.  
[District Rule 204]
- 7. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
- 8. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
- 9. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

e. **B007340 – KILN Q3 PRE-HEATER FEED SYSTEM**

*EQUIPMENT DESCRIPTION: This system is vented to 4 baghouses. Cemex refers to the baghouses as EBH6 (C007348), EBH7 (C007350), EBH8 (C007351) and EBH9 (C008253)..*

- 1. The owner/operator, o/o, shall install, operate and maintain the equipment described on this permit in compliance with all data and specifications submitted with the application under which this permit is issued unless specifically exempted below.  
[District Rule 204]

2. This equipment shall not be operated unless it is vented to the properly functioning baghouses EBH6, EBH7, EBH8 and EBH9; under valid District permits C007348, C007350, C007351, and C008253 respectively.  
[District Rule 204]

**f. C007348 – BAGHOUSE - (EBH6), WHICH SERVES THE KILN Q-3 PRE-HEATER SYSTEM**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-49 D6 pulsejet type baghouse with 56 Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 846 ft<sup>2</sup>, air flow is 3,900 ACFM. Air to Cloth ratio is 4.6:1. Fan motor is rated at 25 hp. Exhaust temperature is 150 F.*

*Unit serves Q3 Kiln and Preheater Feed system.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing

Industry.

[District Rule 204; 40 CFR 63.1343]

5. This baghouse shall discharge no more than 0.48 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT).  
[District Rule 204 and 1303]
6. This baghouse shall discharge no more than 0.29 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dscf of PM-10 at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
8. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
9. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**g. C012651 – ACTIVATED CARBON INJECTION SYSTEM – KILN Q-3**

*EQUIPMENT DESCRIPTION: An Activated Carbon Injection (ACI) system to be used as a mercury (Hg) sorbent on Kiln Q3. This ACI system is composed of a storage silo for the activated carbon with an integrated, passive silo dust collector, an air-activated silo discharge system, a loss-in-weight feeder system with an integrated, passive dust filter system, that includes 24 filter cartridges, 6 inch diameter X 6 foot height each, a positive displacement conveyance blower, and conveyance lines/piping and associated couplings. The ACI system will feed activated carbon at a predetermined controlled rate into the kiln exhaust stream duct prior to entry into the kiln baghouse.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]



2. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State or Federal personnel upon request:
  - d. Monthly reading of dust collectors' pressure drop, date and value;
  - e. Quarterly silo bin sock and dust collector inspection date and results;
  - f. Date of bin sock and or cartridge filter replacements;
  - g. Date and nature of any system repairs; and,[District Rule 1302]
3. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 204]
4. The systems air pollution control devices shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.  
[District Rule 1302]
5. This System shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
6. System dust collectors shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR 63.1343(b), 1345]
7. System dust collectors shall not discharge PM-10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description.  
[District Rule 1302]
8. Aggregated System dust collectors shall discharge no more than 0.003 pounds per hour, and no more than 0.081 lbs/day, and no more than 0.015 tpy of PM10. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of the systems dust collector and bin sock and keep records of the systems hours of operation and the associated calculations.  
[District Rule 1303 – NSR Requirements]

9. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
10. This system and its associated dust collectors are subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]
11. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**h. C007350 – BAGHOUSE – (EBH7) CONTROL DEVICE FOR KILN Q-3 PRE-HEATER FEED SYSTEM**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-49 D6 pulsejet type baghouse with 56 Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 846 ft<sup>2</sup>, air flow is 4,400 ACFM. Air to Cloth ratio is 5.2:1. Fan motor is rated at 25 hp. Exhaust temperature is 150 F.*

*Unit serves Q3 Kiln and Preheater Feed system.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are

observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This baghouse shall discharge no more than 0.33 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dscf of PM-10 at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63 Subpart 1303]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**i. C007351 – BAGHOUSE – (EBH8) WHICH SERVES KILN Q-3  
PRE-HEATER FEED SYSTEM**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-49 D6 pulsejet type baghouse with 56 Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 846 ft<sup>2</sup>, air flow is 4,400 ACFM. Air to Cloth ratio is 5.2:1. Fan motor is rated at 25 hp. Exhaust temperature is 150 F.*

*Unit serves Q3 Kiln and Preheater Feed system.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those

recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall be operated concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This baghouse shall discharge no more than 0.16 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dscf of PM10 at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.

[District Rule 204]

**j. C008253 – BAGHOUSE (EBH9)**

*EQUIPMENT DESCRIPTION: Fuller 120TA10, Pulse-Jet, stack height of 339 ft, diameter of 1.5 ft, airflow of 8100 acfm, velocity of 76.4 ft/second at 150 degrees F, 40 bhp motor, 120 Polyester Bags, 1560 ft<sup>2</sup> of cloth area and Air-to-Cloth ratio of 5.2:1, maximum emission rate of 0.01 grains PM-10/dscf.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This baghouse shall discharge no more than 0.60 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dscf of PM-10 at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rule 204]

6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**k. B005344 – COAL STACKER & RECLAIM SYSTEM**

*EQUIPMENT DESCRIPTION: The outside coal will be stacked in a pile that is approximately 430 ft long and 125 ft wide and about 55 ft high. This pile is not enclosed. Receiving Hoppers, 2; below Railcar Dump, each rated at 300 ton/hr.*

25.0	hp	Railcar Shaker
30.0	hp	Belt Feeders, each at 15 hp
15.0	hp	C-2A Conveyor
15.0	hp	C-3A Conveyor
100.0	hp	Traveling Stacker/Reclaimer, rated at 600 ton/hr
15.0	hp	C-4 Conveyor
0.0	hp	Emergency Reclaim Hopper
200.0	hp	Total

1. The owner/operator, o/o, shall install, operate and maintain this equipment in strict accord with the recommendations of the manufacturer/supplier.  
[District Rule 204]
2. All outside conveyors, excluding the stacker/reclaimer yard conveyor shall be covered.  
[District Rule 204]
3. Water sprays shall be installed, operated and maintained on the receiving hopper under the railcar dump. These sprays shall be used as necessary to prevent violations of District rules 401, 402, and 403.  
[District Rules 204, 401, 402 and 403]
4. A log of operations shall be kept by the o/o for this equipment. The log shall record at least the following:
  - a. Date of coal train delivery

- b. Number of cars delivered
  - c. Number of tons of coal per car  
[District Rules 204 and 1203]
5. With prior written approval, or if there is a breakdown, consistent with District rule 430, of the stacker/reclaimer yard equipment, other means, which include but is not limited to the use of front-end loaders, may be used to transport coal to the Emergency Reclaim Hopper, prior to its entrance into the kiln.  
[District Rule 204]
  6. The Emergency Reclaim Hopper may be used to deliver petroleum coke (with a moisture content of at least eight (8) percent) to the conveyor.  
[District Rule 204]
  7. The o/o will ensure that the petroleum coke storage pile (or delivered petroleum coke) contains sufficient moisture through the use of water sprays or other means. Moisture content shall be verified through moisture content tests; a petroleum coke moisture content test shall be performed during each week petroleum coke is used as fuel (and the date and results of each test shall be maintained on-site for five (5) years).  
[District Rule 204]

## **1. T007357 – PULVERIZED COAL BIN (FPFB4)**

*EQUIPMENT DESCRIPTION: 12,300 gallon (50 ton capacity) bin served by baghouse FCM4BHC1 (C007358) and bin vent FPFB4V, a Mikropul Pulsaire Model 12-6-50 TR dust collector with 12 polyester bags totaling 85 square feet of surface area and filtering a maximum of 75 acfm of flow (for an air to cloth ratio of 0.9:1). Ancillary equipment includes explosion vent, plant air, agitator, new pfister feeder, high pressure CO2 system and those necessary electrical motors, controls and instrumentation to operate. This bin handles pulverized coal destined for combustion in Kiln Q3 burners (calciner and kiln).*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the properly functioning baghouse FCM4BHC1 under valid District permit C007358, and through attached bin vent FPFB4V when accepting pneumatic fill.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. Monthly (or less frequently if allowed by a 40 CFR 63.1350 operations and

- maintenance plan) baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
- b. Quarterly bag and bag suspension system inspection date and results;
  - c. Date of bag replacements; and,
  - d. Date and nature of any system repairs.
- [District Rules 204]
4. This equipment shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants.  
[District Rule 204; 40 CFR 60.250]
  5. The bin vent shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity.  
[District Rule 204; 40 CFR 60.252(c)]
  6. The bin vent shall discharge no more than 0.01 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
  7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions.  
[District Rule 204]

**m. C007358 – BAGHOUSE – (FPFB4DC), WHICH SERVES THE NEW PULVERIZED COAL BIN**

*EQUIPMENT DESCRIPTION: Mikro Pul PulseAire model 42-12-50- PSIG TRC pulsejet type baghouse with 42 polyester bags, each measuring 4.63" diameter x 42" long. Cloth area is 178 ft<sup>2</sup>, air flow is 2,414 ACFM. Air to Cloth ratio is 13.6:1. Fan motor is rated at 25 hp.*

*Unit serves Pulverized Coal Bin permitted under T007357.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with New Pulverized Coal Bin; under valid District permit number T007357.  
[District Rule 204]



3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants.  
[District Rule 204; 40 CFR 60.250]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty (20) percent opacity.  
[District Rule 204; 40 CFR 60.250(c)]
6. This baghouse shall discharge no more than 0.5 lb/hour at a maximum concentration of 0.02 gr/dscf of TSP at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204 and 1303]
7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer).  
[District Rule 204]
8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions.  
[District Rule 204]

**n. B007336 – ROLL PRESS NO. 1, RAW MATERIAL GRINDING**

*EQUIPMENT DESCRIPTION: Roll Press Grinder. This process vents to 5 baghouses. Note: 75 GJ/Hr = 71.08 MMBTU/HR and 1 BHP = 2550 BTU/HR.*

5.100	<i>btu</i>	<i>Roll Press – KHD Hmbolt Model #322/2 Serial # tbd – 2 motors @ 1,000 bhp each (2000*2550 = 5,100,000 btu)</i>
0.0	<i>btu</i>	<i>Air Separator – DRP1VS</i>
0.0	<i>btu</i>	<i>Gate Slide – DRP1VSG</i>
0.0	<i>btu</i>	<i>Feed Bin – DRP1FB – 150 tons</i>
71.086	<i>btu</i>	<i>Air Heater – Natural Gas – Aecomtric Model #AC808 Serial # tbd – Rated at 75 GJ/Hr</i>
0.102	<i>btu</i>	<i>Heater Blower Fan # 01 – DRP1AHF1 – 40 bhp</i>
0.0	<i>btu</i>	<i>Fan damper – DRP1AHF1D</i>
0.0785	<i>btu</i>	<i>Heater Blower Fan # 02 – DRP1AHF3 – 30 bhp</i>
0.0	<i>btu</i>	<i>Fan Damper – DRP1AHF2D</i>
0.765	<i>btu</i>	<i>Air Separator Roll Press #1 – DAS1 – 300 bhp</i>
0.765	<i>btu</i>	<i>Bucket Elevator – DE04 – 2 motors at 150 bhp each</i>
0.102	<i>btu</i>	<i>Air Slide – DAC14 – 40 bhp</i>
0.0638	<i>btu</i>	<i>Air Slide – DAC15 – 25 bhp</i>
0.268	<i>btu</i>	<i>Air Slide – DAC16 – 2 motors at 15 bhp each and 3 motors at 25 bhp each</i>
0.178	<i>btu</i>	<i>Air Slide – DAC17 – 3 motors at 15 bhp each and 1 motor at 25 bhp</i>
0.153	<i>btu</i>	<i>Air slides – DAC30 – 2 motors at 25 bhp and 1 motor at 10 bhp</i>
0.064	<i>btu</i>	<i>Conveyor – DBC 12 – 25 bhp</i>
0.026	<i>btu</i>	<i>Conveyor – DBC13 – 10 bhp</i>
0.153	<i>btu</i>	<i>Conveyor – DBC14 – 60 bhp</i>
0.153	<i>btu</i>	<i>Conveyor – DBC15 – 60 bhp</i>
<hr style="width: 100%; border: 0.5px solid black; margin-bottom: 5px;"/>		
79.1	<i>btu</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
  
2. This equipment shall not be operated unless it is vented to the properly functioning baghouses under valid District permits C007360 (DBH-9), C007361 (DBH-7), C007362 (DBH-8), C007363 (DBH-6), and C010085 (DBH-6A).  
[District Rule 204]
  
3. This equipment shall be equipped with a low-NOx burner with NOx emissions into the atmosphere not to exceed 40 PPMv @ 3% oxygen and/or 0.12 lbs of NOx per million BTU input.  
[District Rule 204]
  
4. This equipment shall not discharge into the atmosphere an exhaust stream with CO emissions not to exceed 400 ppmv.  
[District Rule 204]
  
5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits an opacity during any one-hour (ten 6-minute averages) greater than the ten (10) percent opacity from all stacks.  
[District Rule 204; 40 CFR 63.1343]

6. Visible emissions from this system shall not exceed an opacity equal to or greater than twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor.  
[District Rule 204; 40 CFR 63.1343]
  
7. A facility log shall be maintained on-site for at least two (2) years and made available to District personnel upon request. This log shall contain, as a minimum:
  - a. Amount of natural gas consumed per day,
  - b. Amount of natural gas consumed per month,
  - c. Amount of natural gas consumed per year,
  - d. Number of hours burner operated per day,
  - e. Number of hours burner operated per month,
  - f. Number of hours burner operated per year, and
  - g. Opacity results from fugitive emission points in accord with Conditions 6, and 7.[District Rules 204 and 1203]
  
8. The combined emissions from all permitted combustion source, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:
  - a. NOx - 19,314 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - b. SOx - 4,220 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - c. CO - 27,522 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - d. VOC - 2,139 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - e. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - f. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)[District Rule 204]
  
9. The stacks (vents) that release products of combustion shall be tested triennially for NOx, VOC and CO. (There shall be at least 30 months and no more than 40 months between source tests.)  
[District Rule 204]
  
10. The owner/operator shall conduct all required compliance (initial and routine) tests in accordance with a District-approved test plan. Thirty (30) days prior to the compliance/certification tests the o/o shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District

within forty-five (45) days after testing.  
[District Rules 104 and 204]

11. This equipment is subject to the requirements of the Mojave Desert AQMD, the California Air Resources Board and the US Environmental Protection Agency. In the event of conflict between these conditions and the above requirements, the most stringent requirements shall govern.  
[District Rule 204]

**o. C007360 – BAGHOUSE – DBH 9, WHICH SERVES ROLL PRESS 1 (MATERIAL GRINDING)**

*EQUIPMENT DESCRIPTION: Amerex PulseJet type with 2,128 polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 32,151 ft<sup>2</sup>, air flow is 194,205 acfm. Air to Cloth ratio is 6.0:1. Fan motor rated at 1500 hp.*

*Serves Roll Press #1.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6.5 inches water column..*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Roll Press No.1 System; under valid District permit number B007336.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Annual inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National

Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

[District Rule 204; 40 CFR 63.1343]

5. This baghouse shall discharge no more than 13.5 lb/hour at a maximum concentration of 0.02 gr/dscf of TSP at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
9. The pollutant-specific emission unit (B007336), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 1 and 6.5 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - d. Inspect the affected equipment;
  - e. Initiate a corrective action, within 24 hours; and
  - f. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**p. C007361 – BAGHOUSE – DBH 7, WHICH SERVES ROLL PRESS NO. 1**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-144 D6 PulseJet type with 144 Polyester bags designed to withstand 150 degrees F, each measuring 5.75" diameter x 120.5" long. Cloth area is 2,176 ft<sup>2</sup>, flow rate of 8,828 ACFM. Air to Cloth ratio is 4.1:1. Fan motor rated at 60 hp.*

*Serves Roll Press No. 1.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 4.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Roll Press No.1 System; under valid District permit number B007336.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This baghouse shall discharge no more than 1.25 lb/hour at a maximum concentration of 0.02 of TSP gr/dscf at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across

the bags if one has not been provided with this unit.  
[District Rule 204]

q. **C007362 – BAGHOUSE – DBH 8, WHICH SERVES ROLL PRESS NO. 1**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-121 D6 PulseJet type with 121 Polyester bags designed to withstand 150 degrees F, each measuring 5.75" diameter x 120.5" long. Cloth area is 1,828 ft<sup>2</sup>, flow rate of 11,417 ACFM. Air to Cloth ratio is 6.2:1. Fan motor rated at 60 hp*

*Serves Roll Press No. 1 system.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Roll Press No.1 System; under valid District permit number B007336.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

[District Rule 204; 40 CFR 63.1343]

5. This baghouse shall discharge no more than 1.25 lb/hour at a maximum concentration of 0.02 gr/dscf of TSP at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**r. C007363 – BAGHOUSE – DBH6**

*EQUIPMENT DESCRIPTION: Mikro Pul PulseJet type with 144 Acrylic Polyester bags, each measuring 5.75" diameter x 120.5" long. 2,176 ft<sup>2</sup> Cloth Area, and 4,8000 ACFM air flow. Air to Cloth ratio is 2.2:1. Fan motor rated at 60 hp.*

*Serves Roll Press #1.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Roll Press No.1 System; under valid District permit number B007336.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:



- a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.  
[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
  5. This baghouse shall discharge no more than 0.65 lb/hour at a maximum concentration of 0.02 gr/dscf of TSP at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
  6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
  8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

s. **B007364 – ROLL PRESS NO. 2, RAW MATERIAL GRINDING**

*EQUIPMENT DESCRIPTION: Roll Press Grinder. This process vents to 3 baghouses. Note: 75 GJ/Hr = 71.08 MMBTU/HR and 1 BHP = 2550 BTU/HR.*

5.100	btu	Roll Press – KHD Hmbolt Model #322/2 Serial # tbd – 2 motors @ 1,00 bhp each (2000*2550 = 5,100,000 btu)
0.0	btu	Air Separator – DRP2VS
0.0	btu	Gate Slide – DRP2VSG

	<i>0.0</i>	<i>btu</i>	<i>Feed Bin – DRP1FB – 150 tons</i>
<i>71.086</i>	<i>btu</i>		<i>Air Heater – Natural Gas – Aecomtric Model #AC808 Serial # tbd – Rated at 75 GJ/Hr</i>
<i>0.102</i>	<i>btu</i>		<i>Heater Blower Fan # 01 – DRP2AHF1 – 40 bhp</i>
<i>0.0</i>	<i>btu</i>		<i>Fan damper – DRP2AHF1D</i>
<i>0.076</i>	<i>btu</i>		<i>Heater Blower Fan # 02 – DRP2AHF3 – 30 bhp</i>
<i>0.0</i>	<i>btu</i>		<i>Fan Damper – DRP2AHF2D</i>
<i>0.765</i>	<i>btu</i>		<i>Air Separator Roll Press #1 – DAS1 – 300 bhp</i>
<i>0.102</i>	<i>btu</i>		<i>Air Slide – DAC21 – 25 &amp; 15 bhp</i>
<i>0.064</i>	<i>btu</i>		<i>Air Slide – DAC22 – 25 bhp</i>
<i>0.166</i>	<i>btu</i>		<i>Air Slide – DAC23 – 25, 25 &amp; 15 bhp</i>
<i>0.064</i>	<i>btu</i>		<i>Air Slide – DAC24 – 25 bhp</i>
<i>0.135</i>	<i>btu</i>		<i>Conveyor – DBC 16 – 25, 25 &amp; 3 bhp</i>
<i>0.026</i>	<i>btu</i>		<i>Conveyor – DBC17 – 10 bhp</i>
<i>0.153</i>	<i>btu</i>		<i>Conveyor – DBC18 – 25, 25, 5 &amp; 5 bhp</i>
<i>0.051</i>	<i>btu</i>		<i>Conveyor – DBC19 – 15 &amp; 5 bhp</i>
<i>0.191</i>	<i>btu</i>		<i>Bucket Elevator DE06 – 75 bhp</i>
<i>0.382</i>	<i>btu</i>		<i>Bucket Elevator DE07 – 150 bhp</i>
<i>78.5</i>	<i>btu</i>		<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the properly functioning baghouses under valid District permits C007365 (DBH 12), C007366 (DBH 10) and C007367 (DBH 11).  
[District Rule 204]
3. This equipment shall be equipped with a low-NOx burner with NOx emissions into the atmosphere not to exceed 40 PPMv @ 3% oxygen and/or 0.12 lbs of NOx per million BTU input.  
[District Rule 204]
4. This equipment shall not discharge into the atmosphere an exhaust stream with CO emissions not to exceed 400 ppmv.  
[District Rule 204]
5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits an opacity during any one hour (ten 6-minute averages) greater than the Ten (10) percent opacity from all stacks.  
[District Rule 204; 40 CFR 63.1343]
6. Visible emissions from this system shall not exceed an opacity equal to or greater than twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor.

[District Rule 204; 40 CFR 63.1343]

7. A facility log shall be maintained on-site for at least two (2) years and made available to District personnel upon request. This log shall contain, as a minimum:
  - h. Amount of natural gas consumed per day,
  - i. Amount of natural gas consumed per month,
  - j. Amount of natural gas consumed per year,
  - k. Number of hours burner operated per day,
  - l. Number of hours burner operated per month,
  - m. Number of hours burner operated per year, and
  - n. Opacity results from fugitive emission points in accord with Conditions 6, and 7.[District Rule 204]
  
8. The combined emissions from all permitted combustion source, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:
  - g. NOx - 19,314 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - h. SOx - 4,220 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - i. CO - 27,522 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - j. VOC - 2,139 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - k. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - l. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)[District Rule 204]
  
9. The stacks (vents) that release products of combustion shall be tested triennially for NOx, VOC and CO. (There shall be at least 30 months and no more than 40 months between source tests.)  
[District Rule 204]
  
10. The owner/operator shall conduct all required compliance (initial and routine) tests in accordance with a District-approved test plan. Thirty (30) days prior to the compliance/certification tests the o/o shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District within forty-five (45) days after testing.  
[District Rules 204 and 401]
  
11. This equipment is subject to the requirements of the Mojave Desert AQMD, the California

Air Resources Board and the US Environmental Protection Agency. In the event of conflict between these conditions and the above requirements, the most stringent requirements shall govern.  
[District Rule 204]

t. **C007365 – BAGHOUSE – DBH 12, WHICH SERVES ROLL PRESS NO. 2**

*EQUIPMENT DESCRIPTION: Amerex PulseJet type baghouse with 2,964 Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 44,781 ft<sup>2</sup>, air flow is 295,000 ACFM. Air to Cloth ratio is 2.5:1. Fan motor is rated at 2,500 hp.*

*Unit serves Roll Press #2.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Roll Press No.2 System; under valid District permit number B007364.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Annual inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]

5. This baghouse shall discharge no more than 16.5 lb/hour at a maximum concentration of 0.02 gr/dscf of TSP at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
9. The pollutant-specific emission unit (B007364), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 1 and 6 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**u. C007366 – BAGHOUSE – DBH 10, WHICH SERVES ROLL PRESS NO. 2**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-144 D6, PulseJet type baghouse with 144 Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 2,175 ft<sup>2</sup>, air flow is 9,400 ACFM. Air to Cloth ratio is 4.3:1. Fan motor is rated at 60 hp.*

*Unit serves Roll Press #2.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 4.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which

produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall operate concurrently with the Roll Press No.2 System; under valid District permit number B007364.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]
5. This baghouse shall discharge no more than 1.35 lb/hour at a maximum concentration of 0.02 gr/dscf of TSP at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

1. .  
[District Rule 204]

v. **C007367 – BAGHOUSE – DBH 11, WHICH SERVES ROLL PRESS NO. 2**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-121 D6 PulseJet type baghouse with 121 Acrylic Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 1,828 ft<sup>2</sup>, air flow is 9,400 ACFM. Air to Cloth ratio is 5.1:1. Fan motor is rated at 60 hp.*

*Unit serves Roll Press #2.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Roll Press No.2 System; under valid District permit number B007364.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (monthly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs.[District Rule 204; 40 CFR 60.1350]
4. This baghouse shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63.1343]

5. This baghouse shall discharge no more than 1.35 lb/hour at a maximum concentration of 0.02 gr/dscf of TSP at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]
6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
7. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.  
[District Rules 204 and 1203]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**w. T007339 – RAW MEAL TRANSPORT SYSTEM**

*EQUIPMENT DESCRIPTION: A silo of approximately 250,000 gallons and conveyors. System vents to 3 baghouses, DBH13A, DBH14, and DBH15.*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to properly functioning baghouses; DBH13A, DBH14, and DBH15, per valid District permits C007353, C007355 and C007356, respectively.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**x. C007353 – BAGHOUSE – DBH 13**



*EQUIPMENT DESCRIPTION: Amerex model RP-10-144 D6, pulse jet type baghouse with 56 Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 846 ft<sup>2</sup>, air flow is 12,535 ACFM. Air to Cloth ratio is 14.8:1. Fan motor is rated at 30 hp.*

*Unit serves Roll Press No. 1 system.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall be operated concurrently with the Raw Meal Transport system, under valid District permit number T007339.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.34 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dscf of PM-10 at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the

District.  
[District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

y. **C007355 – BAGHOUSE – DBH 14, CONTROLLING EMISSIONS FROM THE RAW MATERIAL TRANSPORT SYSTEM**

*EQUIPMENT DESCRIPTION: Amerex model RP-10-110 D6, pulse jet type baghouse with 110 Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 1,662 ft<sup>2</sup>, air flow is 8,650 ACFM. Air to Cloth ratio is 5.2:1. Fan motor is rated at 50 hp.*

*Unit serves Roll Press No. 1 System.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Raw Meal Transport system; under valid District permit number T007339.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]

4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.64 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dscf of PM-10 at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**z. C007356 – BAGHOUSE – DBH 15**

*EQUIPMENT DESCRIPTION:*

*Amerex model RP-10-64 D6 pulse jet type baghouse with 64 Polyester bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 967 ft<sup>2</sup>, air flow is 5,300 ACFM. Air to Cloth ratio is 5.5:1. Fan motor is rated at 25 hp.*

*Unit serves Roll Press No. 1 system*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Raw Meal Transport system; under valid District permit number T007339.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this

equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific monitoring plan:
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. This baghouse shall discharge no more than 0.39 lb/hour of PM-10 at a maximum concentration of 0.01 gr/dscf of PM-10 at the operating conditions described in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.
  8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]

**aa. T008472 – SILO-RAW MEAL ES4**

*EQUIPMENT DESCRIPTION: A new K3 blending silo, which contains approximately 10,000 ton of raw meal at 70 lb/cubic ft (total rating 2.56 million gallons). This silo to be designated ES4 will sit approximately 96 feet on centers from silo ES3. This new silo will be equipped with three baghouses to collect PM-10. Included in this silo will be the necessary rotary control valve motors (electric and air operated); hand operated cut-off gate; Airslides and the necessary equipment to tie into K2 Blending Silo, ES3.*

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. The equipment described above shall not be operated unless vented to air pollution control devices operating under valid District permits, C008473, C008474, and C009753.  
[District Rule 204]
3. This unit shall not be operated if any of the above baghouses are not operated for any reason, unless prior written approval is given by the APCO.  
[District Rule 204]

**bb. C008473 – BAGHOUSE – EBH 10**

*EQUIPMENT DESCRIPTION: IAC Model 120TB-BVT-499:S6, pulse type baghouse with 49 Polyester felt bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 740 ft<sup>2</sup>, air flow is 9,400 ACFM. Air to Cloth ratio is 12.7:1. Fan motor is rated at 60 hp.*

*Unit serves Raw Meal Silo ES4.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 4.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Blending Silo under valid District permit T008472.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed

- for six consecutive months;
- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.01 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**cc. C008474 – BAGHOUSE – EBH 11**

*EQUIPMENT DESCRIPTION: IAC Model 120TB-BVT-64:S6, pulse type baghouse with 64 Polyester felt bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 967 ft<sup>2</sup>, air flow is 4,200 ACFM. Air to Cloth ratio is 4.3:1. Fan motor is rated at 5 hp.*

*Unit serves Silo Raw Meal ES4.*

*Facility has specified that the normal operating range for pressure differential is between 1 and 4.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Blending Silo under valid District permit T008472.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
- a. A site-specific monitoring plan;

- b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.01 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**dd. C009753 – BAGHOUSE (EBH12)**

*EQUIPMENT DESCRIPTION: BAGHOUSE - EBH12, SERVES RAW MEAL SILO ES4 consisting of: IAC Model 120TB-BVT-16:S6, pulse type baghouse with 16 Polyester felt bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 242 ft<sup>2</sup>, air flow is 1,100 ACFM. Air to Cloth ratio is 4.6:1. Fan motor is rated at 5 hp. Unit serves Raw Meal Silo ES4.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Blending Silo under valid District permit T008472.  
[District Rules 204 and 1203]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of

the following information, which shall be provided to District personnel upon request:

- a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.01 gr/dscf of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**ee. T010576 – TANKS, AQUEOUS AMMONIA**

*EQUIPMENT DESCRIPTION: Two tanks for ammonium hydroxide (19%) serving selective non-catalytic reduction systems on Kiln 2 (Q2) and Kiln 3 (Q3). This permit covers both tanks and ancillary equipment.*

*40.0 Two 20,000 gallon capacity 19% aqueous ammonia storage tanks*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall only store 19% aqueous ammonia (ammonium hydroxide).  
[District Rule 204]
3. This equipment shall be discharged through the selective non-catalytic reduction ammonia



injection systems operating with Q2 (B001083) and Q3 (B005362).  
[District Rule 204]

## ***E) GROUP #4 – CLINKER STORAGE AND HANDLING (QUARRY)***

### **a. B001676 – CLINKER RECLAIM SYSTEM – OUTSIDE STORAGE**

*EQUIPMENT DESCRIPTION: Control: C001669 (HBH22) 20 hp.*

<i>10.0</i>	<i>hp</i>	<i>Vibrating Feeders (7 @ 2.5 hp ea.) (only 4 run at a time)</i>
<i>75.0</i>	<i>hp</i>	<i>Conveyor – HBC 12</i>
<i>30.0</i>	<i>hp</i>	<i>Vibrating Feeders (6 @ 5 hp ea.) (2 set of 3 @ 15 hp ea.)</i>
<i>115.0</i>	<i>hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001669.  
[District Rule 204]

### **b. C001669 – BAGHOUSE (HBH 22)**

*EQUIPMENT DESCRIPTION: MK V reverse-air type baghouse with 150 polyester bags, each measuring 6.0" diameter x 166" long. Cloth area is 3,255 ft<sup>2</sup>, air flow is 6,000 ACFM. Air to Cloth ratio is 1.8:1. Fan motor is rated at 20 hp.*

*Unit serves Clinker Dome Reclaim System Permitted as B001676*

*Facility has specified that the normal operating range for pressure differential is between TBD inches water column. Exhaust temperature is 150 F.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Dome Clinker Reclaim System

(B001676).  
[District Rule 204]

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**c. B001677 – CLINKER RECLAIM SYSTEM – STORAGE DOME**

*EQUIPMENT DESCRIPTION: Controls: C000092 (HBH6) 18 hp; C000093 (HBH17) 18 hp; C001660 (HBH20) 30 hp.*

19.8	hp	Vibrating Feeders - 6 (2 sets @ 9.9 hp ea.)
75.0	hp	Conveyor – HBC8
75.0	hp	Conveyor – HBC9
1.5	hp	2 2/3 hp Rotary Locks
171.3	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit Nos. C000092, C000093 and C001660.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**d. C000092 – BAGHOUSE (HBH 6)**

*EQUIPMENT DESCRIPTION: DCE-Vokes model 2 DCM-V 20/10 pulsejet type baghouse with 20 polyester felt- Terylene envelopes style bags, each measuring 19.5" wide x 40" long. Cloth area is 216 ft<sup>2</sup>, air flow is 1,000 ACFM. Air to Cloth ratio is 4.7:1. Fan motor is rated at 18 total hp: There are six identical units controlling transfer points from vibratory feeders 65-VF-31/33 to Belt 65-BC-1 and discharging to 65-BC-1.*

*Unit serves Clinker Loadout Conveyor HBC8, under permit B001677*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Loadout Conveyor (HBC8), under District Permit B001677.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are

observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**e. C000093 – BAGHOUSE (HBH 17)**

*EQUIPMENT DESCRIPTION: DCE-Vokes model 2 DCM-V 20/10 pulsejet type baghouse with 20 polyester felt- Terylene envelopes style bags, each measuring 19.5" wide x 40" long. Cloth area is 216 ft<sup>2</sup>, air flow is 1,000 ACFM. Air to Cloth ratio is 4.7:1. Fan motor is rated at 18 total hp. There are six identical units controlling transfer points from vibratory feeders 65-VF-34/36 to Belt 65-BC-2 and discharging to 65-BC-2*

*Unit serves Clinker Loadout Conveyor HBC9 Permitted under B001677*

*Facility has specified that the normal operating range for pressure differential is between 1 and 6 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Loadout Conveyor (HBC9), under District Permit B001677.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40

CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**f. C001660 – BAGHOUSE (HBH 20)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 100 WRTC-96(III) pulsejet type baghouse with 96 polyester felt bags, each measuring 5.84" diameter x 100" long. Cloth area is 1,223 ft<sup>2</sup>, air flow is 7,000 ACFM. Air to Cloth ratio is 5.7:1. Fan motor is rated at 30 hp. Exhaust temperature is 150 F.*

*Unit serves Clinker Loadout Conveyors HBC8 and HBC9 permitted under B001677.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall operate concurrently with the Clinker Loadout Conveyors HBC8 and HBC9, under District Permit B001677.  
 [District Rule 204]
  
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
 [40 CFR 63.1350(f), 1355(g)]
  
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
 [40 CFR Part 63 Subpart LLL]
  
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
 [District Rule 401; 40 CFR 63.1343(b), 1345]
  
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
 [District Rule 204]
  
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**g. B001678 – CLINKER RECLAIM SYSTEM – STORAGE SILO NO.**

**1**

*EQUIPMENT DESCRIPTION: Controls: C000092 (HBH6) 18 hp; C000093 (HBH17) 18 hp; C001660 (HBH20) 30 hp.*

<i>30.0</i>	<i>hp</i>	<i>Vibrating Feeders (4)</i>
<i>1.5</i>	<i>hp</i>	<i>Air Locks – 2 @ ¾ hp ea.</i>
<i>31.5</i>	<i>hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001308.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]

**h. C001308 – BAGHOUSE (HBH 18)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 100 WRTC-96(III) pulsejet type baghouse with 96 polyester felt bags, each measuring 5.84" diameter x 100" long. Cloth area is 1,223 ft<sup>2</sup>, air flow is 7,000 ACFM. Air to Cloth ratio is 5.7:1. Fan motor is rated at 30 hp.*

*Unit serves Clinker Loadout Conveyors HBC8 and HBC9 (underground) permitted under B001678.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 6 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Loadout Conveyors HBC8 and HBC9 (underground), under District Permit B001678.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are

observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
  5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
  6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rule 204]
  7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**i. B001679 – CLINKER RECLAIM SYSTEM – STORAGE SILO NO. 2**

*EQUIPMENT DESCRIPTION: Control: C001300 (HBH19).*

30.0	hp	Vibrating Feeders (4)
1.5	hp	Air Locks – 2 @ ¾ hp ea.
31.5	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001300.  
[District Rule 204]
3. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]



**j. C001300 – BAGHOUSE (HBH 19)**

*EQUIPMENT DESCRIPTION: Flex Kleen model 100 WRTC-96(III) pulsejet type baghouse with 96 polyester felt bags, each measuring 5.84" diameter x 100" long. Cloth area is 1,223 ft<sup>2</sup>, air flow is 7,000 ACFM. Air to Cloth ratio is 5.7:1. Fan motor is rated at 30 hp.*

*Unit serves Clinker Loadout Conveyors HBC8 and HBC9 permitted under B001679.*

*Facility has specified that the normal operating range for pressure differential is between 1.5 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the Clinker Loadout Conveyors HBC8 and HBC9, under District Permit B001679.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - c. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF of TSP. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

[District Rule 204]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

**k. B000085 – CLINKER LOADOUT SYSTEM - RAIL**

*EQUIPMENT DESCRIPTION: Control: C001300 (HBH19).*

75.0	hp	Conveyor (HBC8)
75.0	hp	Conveyor (HBC9)
75.0	hp	Conveyor (HBC10)
75.0	hp	Conveyor (HBC11)
<hr/>		
300.0	hp	Total

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C001670 (HBH21).  
[District Rule 204]
3. A facility log shall be maintained on-site for at least five (5) years and made available to District personnel upon request. This log shall contain, as a minimum:
  - a. Monthly (or as otherwise allowed by 40 CFR 63.1350) one-minute observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); and,
  - b. Date and nature of any equipment/enclosure repairs.  
[District Rule 204]
4. This equipment shall be operated in compliance with 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[District Rule 204; 40 CFR 63 Subpart LLL]
5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 204; 40 CFR 63.1343(b), 1345]

**l. C001670 – BAGHOUSE (HBH21)**

*EQUIPMENT DESCRIPTION: An Industrial Accessories Co. model 106-TBI-320:S6 pulsejet type baghouse with 320 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is*

*4,835 ft<sup>2</sup>, air flow is 40,000 ACFM. Air to Cloth ratio is 8.3:1. Fan motor is rated at 40 hp.  
Exhaust temperature is 150 F.*

*Unit serves Rail Loadout System permitted under B000085.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the rail load out (B000085).  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific opacity monitoring plan;
  - b. Daily reading of baghouse pressure drop, date and value;
  - c. Annual inspection of the bags and bag suspension system;
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test). The Method 22 test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner/operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
  - e. Date and nature of any system repairs.  
[40 CFR 63.1350(f), 1355(g), 40 CFR 64.7(d)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
[40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 3.43 pounds per hour of PM<sub>10</sub> at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
[District Rules 204 and 1303]

7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
[District Rule 204]
8. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.  
[District Rule 204]
9. The pollutant-specific emission unit (B000085), for which this baghouse controls is subject to the requirements of Compliance Assurance Monitoring (CAM) of 40 CFR 64. As such, this permit unit must be compliant with an approved CAM Plan. An excursion of the CAM Plan is defined as a differential pressure outside the range of 2 and 5 inches of column; and/or the presence of visible emissions, as demonstrated by condition 3(d) of this District Permit. Any excursion of the CAM Plan requires the owner operator to do the following:
  - a. Inspect the affected equipment;
  - b. Initiate a corrective action, within 24 hours; and
  - c. Report/Document the excursion in facility recordkeeping required under condition 3 of this District Permit.[40 CFR 64.7(d)]

**m. C004871 – BAGHOUSE (HBH23)**

*EQUIPMENT DESCRIPTION: Industrial Accessories Co. model 106-TBI-320:S6 pulsejet type baghouse with 81 Nomex bags, each measuring 5.75" diameter x 120.5" long. Cloth area is 1,224 ft<sup>2</sup>, air flow is 7,500 ACFM. Air to Cloth ratio is 6.1:1. Fan motor is rated at 15 hp. Exhaust temperature is 150 F.*

*Unit serves Rail Loadout System permitted under B000085.*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5.5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with the reclaimer conveyor discharge transfer point (HBC17) covered in District permit B000085.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. A site-specific monitoring plan;
  - b. Bags and bag suspension system inspection (quarterly);
  - c. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - d. Date and nature of any system repairs.  
 [40 CFR 63.1350(f), 1355(g)]
4. All equipment shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.  
 [40 CFR Part 63 Subpart LLL]
5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
 [District Rule 401; 40 CFR 63.1343(b), 1345]
6. This baghouse shall discharge no more than 0.64 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf of TSP at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.  
 [District Rules 204 and 1303]
7. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.  
 [District Rule 204]

**n. N001452 – GASOLINE DISPENSING FACILITY (NON-RETAIL)**

*EQUIPMENT DESCRIPTION: One 15,000 gallon above ground storage tank (AGT) storing gasoline. A 20,000 gallon Diesel AGT is exempt from permitting, pursuant to MD Rule 219(E)(15)(c)(iii).*

**FUEL TANKS**

Tank No.	Material Stored	Volume (US Gallons)	Above/Underground
1	Diesel	20,000	Above Ground
2	87U	15,000	Above-Ground

**DISPENSING EQUIPMENT**

Fuel Type	Quantity
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Diesel	2
87U	1

**VAPOR CONTROL EQUIPMENT**

Type	Equipment Name	Compliance
PI	DP	G-70-132-B
PII	BAL	G-70-132-B

1. The toll-free telephone number that must be posted is 1-800-635-4617.  
[District Rule 204]
2. The owner/operator (o/o) shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461. Such logs or records shall be maintained at the facility for at least five (5) years and shall be available to the District upon request.  
[District Rule 204]
3. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the District.  
[District Rule 204]
4. The Vapor vent pipes are to be equipped with pressure relief valves.  
[District Rule 204]
5. The o/o shall perform the following tests within 60 days of construction completion and annually thereafter in accord with the following test procedures:
  - a. Pressure Decay Tests per CARB test method TP-201.3B;
  - b. Liquid Removal Test (if applicable) per TP-201.6;
  - c. Emergency vents and manways shall be leak free when tested at the operating pressure of the tank in accordance with CARB test methods, as specified in Title 17, California Code of Regulations

The District shall be notified a minimum of 10 days prior to performing the required tests with the final results submitted to the District within 30 days of completion of the tests.

Passing test reports shall be received by the District not later than six (6) weeks prior to the expiration date of this permit  
[District Rules 204 and 461]

6. The annual throughput of gasoline shall not exceed 500,000 gallons per year. Throughput Records shall be kept on site and available to District personnel upon request. Before this annual throughput can be increased the facility may be required to submit to the District a site specific Health Risk Assessment in accord with a District approved plan. In addition public notice and/or comment period may be required.  
[District Rules 204 and 461]
7. The o/o shall maintain and operate this equipment in compliance with CARB Executive

Order G-70-132-B.  
[District Rule 204]

**o. E001910 – DIESEL IC ENGINE, STATIONARY, EMERGENCY GENERATOR**

*EQUIPMENT DESCRIPTION: Year of Manufacture: 02-10-72; Tier 0; One 1,000 kW standby generator, skid mounted, weather enclosed, Steward & Stevenson Services with GM Electromotive Diesel Engine, work order No. 65487. Equivalent hp - 1,341.*

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 204; 40 CFR Part 63, Subpart ZZZZ]
2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.  
[17 CCR 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR Subpart ZZZZ]
3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.  
[17 CCR 93115]
4. Engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.  
[17 CCR 93115]
5. This unit shall be limited to emergency use only, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit.  
[17 CCR 93115]
6. Owner/operator must meet the following requirements:
  - a. Change oil and filter every 500 hours of operation or annually, whichever comes first. O/o may utilize an oil analysis program as described in §63.6625(i) in order to

- extend this requirement;
  - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
  - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.  
[40 CFR Part 63, Subpart ZZZZ]
7. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
- a. Date of each use and duration of each use (in hours);
  - b. Record(s) of engine maintenance including those specified in condition 6;
  - c. Reason for use (testing & maintenance, emergency, required emission testing);
  - d. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
  - e. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).  
[17 CCR 93115]
8. This genset is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115) and 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. In the event of conflict between these conditions and the aforementioned regulations, the more stringent requirements shall govern.  
[17 CCR 93115]
9. This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.  
[17 CCR 93115]
10. The combined emissions from all permitted combustion source, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:
- a. NO<sub>x</sub> - 19,314 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - b. SO<sub>x</sub> - 4,220 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - c. CO - 27,522 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - d. VOC - 2,139 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - e. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS for kiln



and Source Test and Production Logs for Roll Press Burners and other combustion sources)

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

[District Rule 204]

**p. T004582 – TANK – WASTE OIL**

*EQUIPMENT DESCRIPTION: Above-ground, 1,000 gallon steel tank that is 64" diameter and 72" long.*

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.  
[District Rule 204]
2. Materials that may be stored in this tank are limited to internally generated waste oils.  
[District Rule 204]

**q. B010486 – BIOSOLIDS FUEL TRANSFER, STORAGE & INJECTION PROCESS**

*EQUIPMENT DESCRIPTION:*

- 3.0 hp Truck Unloading Hopper
- 6.0 hp Screw Extractor
- 100.0 hp Hydraulic Pumps (2), 50 hp each, 20 gpm@2000 psi each
- 0.0 hp Hydraulic Oil Tank, 50 gallons
- 7.5 hp Transfer Conveyor
- 5.0 hp Bin Vent for BioSolid equipment, consisting of Power Core Filter Pack, filter  
Area 268 R2,4 Nanofiber filters; 7.56" X 22.38" x 7'L, requires compressed air at 90PSI and 10 SCFM, Blower Motor - 5 HP; Model Number CPV-4 providing 2,000 cfm flowrate. 5080 Ton or 4,200 cuft Guppy used for storage of the BioSolids; utilizes a 50 HP
- 50.0 hp *EQUIPMENT ASSOCIATED WITH MULTI-FUEL SYSTEM*
- 25.0 hp Hydraulic Power Unit Pump Motor - for Walking floor trailer
- 1.0 hp Hydraulic Power Unit Cooling Fan Motor 1
- 1.0 hp Hydraulic Power Unit Cooling Fan Motor 2
- 3.0 hp EcoDock 1 Live Bottom Screw 1 Motor
- 3.0 hp EcoDock 1 Live Bottom Screw 2 Motor
- 3.0 hp EcoDock 1 Live Bottom Screw 3 Motor
- 3.0 hp EcoDock 1 Live Bottom Screw 4 Motor
- 0.5 hp EcoDock 1 Roll Up Door Motor
- 3.0 hp EcoDock 2 Live Bottom Screw 1 Motor

3.0	<i>hp</i>	<i>EcoDock 2 Live Bottom Screw 2 Motor</i>
3.0	<i>hp</i>	<i>EcoDock 2 Live Bottom Screw 3 Motor</i>
3.0	<i>hp</i>	<i>EcoDock 2 Live Bottom Screw 4 Motor</i>
0.5	<i>hp</i>	<i>EcoDock 2 Roll Up Door Motor</i>
7.5	<i>hp</i>	<i>Move Master Drag Conv. Motor</i>
1.0	<i>hp</i>	<i>DM0 Weigh Belt Motor</i>
10.0	<i>hp</i>	<i>IDMS Rotary Valve</i>
2000	<i>hp</i>	<i>Blower for pneumatic system</i>
442.0	<i>hp</i>	<i>Total</i>

1. The owner/operator (o/o) shall install, operate, and maintain all equipment described in this permit in strict accord with the recommendations of the manufacturer or supplier and/or sound engineering principles which produce the minimum emission of air contaminants.  
[District Rule 204]
2. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.  
[District Rule 204]
3. Biosolid unloading operations shall not exhibit any visible emissions.  
[District Rule 204]
4. Biosolid material shall contain sufficient moisture to ensure compliance with District Rules 401 and 403 and no visible emissions requirements as stated above.  
[District Rule 204]
5. Biosolid material is conveyed through completely enclosed tubes and conveying equipment and shall not exhibit any visible emissions.  
[District Rule 204]
6. Water dispensing equipment shall be maintained on-site and used as necessary to ensure compliance with the above-mentioned rules and visible emissions requirements.  
[District Rule 204]

**r. B010327 – ALTERNATIVE FUEL TRANSFER, STORAGE & INJECTION PROCESS**

*EQUIPMENT DESCRIPTION:* .

15.0	<i>hp</i>	<i>West Silo Discharge Augers, (2) 18" Discharge Auger 12' Centerlines inlet to discharge</i>
0.0	<i>hp</i>	<i>Walking Floor 24' X 5.5' X 10'</i>
1.5	<i>hp</i>	<i>West Silo Reclaim Hydraulic Power Unit</i>
0.0	<i>hp</i>	<i>Truck Unloading Hopper 30' X 30' X 15' Hopper for two Trucks</i>

0.0	hp	Two Double Tipping Valve, one for No.2 Kiln, and one for No. 3 kiln
150.0	hp	Pneumatic Transport System Fuller Pipe Blower
7.4	hp	Rotary Feeder 5.5 Kw Motor
100.0	hp	Weigh Belt Feeder 24' x 5.5' x 10' w-100 hp Blower
351.0	hp	Total

1. The owner/operator (o/o) shall install, operate, and maintain all equipment described in this permit in strict accord with the recommendations of the manufacturer or supplier and/or sound engineering principles which produce the minimum emission of air contaminants.  
[District Rule 204]
2. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.  
[District Rule 204]
3. Alternative materials are conveyed through completely enclosed tubes and conveying equipment and shall not exhibit any visible emissions.  
[District Rule 204]
4. Alternative materials unloading operations shall not exhibit any visible emissions.  
[District Rule 204]
5. Alternative materials shall contain sufficient moisture to ensure compliance with District Rules 401 and 403 and no visible emissions requirements as stated above.  
[District Rule 204]
6. Water dispensing equipment shall be maintained on-site and used as necessary to ensure compliance with the above-mentioned rules and visible emissions requirements.  
[District Rule 204]
7. This process shall not be operated unless BioSolid materials are stored in silos permitted by valid District permit T001998 venting through properly operating dust control devices operating under valid District permits C001294, C001295, C000095, and C001668.  
[District Rule 204]

**s. E009245 – DIESEL IC ENGINE PUMP, EMERGENCY**

*EQUIPMENT DESCRIPTION: One Cummins, Diesel fired internal combustion engine Model No. 6BTAA5.9-G and Serial No. 46447523, Inter Cooled, producing 207 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 10 gal/hr with a heat input rating of 0 MMBTUH. This*

1. *equipment powers a Onan Pump Model No. DGK-5699459 and Serial No. L040727765, rated at 125 kW. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise*

noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[District Rule 204; 40 CFR 63.6605(a) and 63.6605 (b)]

2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.  
[17 CCR 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines; 17 CCR 93115.10(d) and 40 CFR 63.6655(f)]
3. This This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:
  - a) Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,
  - b) A cetane index or aromatic content, as follows:
    - (i) A minimum cetane index of 40; or,
    - (ii) A maximum aromatic content of 35 volume percent.

[17 CCR 93115.5(a); 40 CFR 60.4207(b)]  
Note: Use of CARB certified ULSD fuel satisfies these requirements.
4. This unit shall be limited to use for emergency fire suppression, defined as in response to a fire or due to low fire water pressure. In addition, this unit shall be operated no more than 50 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 50 hour per year limit. The 50-hour limit can be exceeded when the emergency fire pump assembly is driven directly by a stationary diesel fueled CI engine operated per and in accord with the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 1998 edition or Subsequent. This requirement includes usage during emergencies.  
[Title 17 CCR 93115.3(n)]
5. The owner/operator shall maintain an operations log for this equipment current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:
  - a) Date of each use and hours of operation with documentation of how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation, including what classified the operation as non-emergency. [17 CCR 93115.10(f) and 40 CFR 63.665(f)]; and,
  - b) The Monthly and calendar year operation in terms of total hours, both emergency and non-emergency use, classified as described in a. above [17 CCR 93115.10(f)]; and,
  - c) Monthly fuel use [17 CCR 93115.10(f)]; and,
  - d) Fuel sulfur concentration and cetane index, as required by condition 3 (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
  - e) Maintenance performed on this equipment, inclusive of the management practice

- requirements of condition 6 below; and,
  - f) Records of the occurrence and duration of each malfunction of operation ( i.e., process equipment) or the air pollution control and monitoring equipment [40 CFR 63.6655(a)(2)]; and,
  - g) Records of all required maintenance performed on the air pollution control and monitoring equipment [40 CFR 63.6655(a)(4)]; and,
  - h) Records of actions taken during periods of malfunction to minimize emissions in accordance with condition 1, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.  
[40 CFR 63.6655(a)(5)].
6. This engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ, and pursuant to this federal regulation, the owner/operator of this equipment shall demonstrate continuous compliance by committing to a maintenance schedule inclusive of the management practice requirements listed below:
- a. Change oil and filter every 500 hours of operation or annually, whichever comes first. O/o may utilize an oil analysis program as described in §63.6625(i) in order to extend this requirement;
  - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
  - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.  
[40 CFR 63.6603(a) and 63.6640(a)]
7. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
- a. Date of each use and duration of each use (in hours);
  - b. Record(s) of engine maintenance including those specified in condition 6;
  - c. Reason for use (testing & maintenance, emergency, required emission testing);
  - d. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
  - e. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).  
[17 CCR 93115]
8. This genset is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115) and 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. In the event of conflict between these conditions and the aforementioned regulations, the more stringent requirements shall govern.  
[17 CCR 93115]
9. This unit shall not be used to provide power during a voluntary agreed to power outage

and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.

[17 CCR 93115]

10. The combined emissions from all permitted combustion source, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:
  - a. NO<sub>x</sub> - 19,314 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - b. SO<sub>x</sub> - 4,220 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - c. CO - 27,522 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - d. VOC - 2,139 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - e. Main Stack TSP - 1,435 lbs (verified by annual source test and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
  - f. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)

[District Rule 204]

**t. E012225 – DIESEL IC ENGINE, EMERGENCY GENERATOR**

*EQUIPMENT DESCRIPTION: One John Deere, Diesel fired internal combustion engine Model No. 4045TF290 and Serial No. PE4045R943713, Turbo Charged, producing 75 bhp with 4 cylinders at 2200 rpm while consuming a maximum of 33 lbs/hr. This equipment powers a Unknown Generator Model No. Unknown and Serial No. Unknown, rated at Unknown.*

1. This certified stationary compression-ignited internal combustion engine shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[40 CFR 60.4211(a)]
2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.  
[17 CCR 93115.10(d)]
3. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:
  - a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight

- basis; and,
- b. A cetane index or aromatic content, as follows: (i) A minimum cetane index of 40; or, (ii) A maximum aromatic content of 35 volume percent.  
[17 CCR 93115.5(a); 40 CFR 60.4207(b)]  
Note: Use of CARB certified ULSD fuel satisfies these requirements.
4. This engine shall be limited to use for emergency power, defined as in response to a fire or flood, or when commercially available power has been interrupted. In addition, this engine shall be operated no more than 50 hours per year for testing and maintenance. Engine operation for emergency use and for emission testing to show compliance with 93115.6(a)(3) does not count toward the testing and maintenance limit of 50 hours per year.  
[17 CCR 93115.6(a)(3)(1)(c)]
5. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
- a. Date of each use and duration of each use (in hours);
  - b. Reason for use (testing & maintenance, emergency, required emission testing);
  - c. Monthly and rolling 12-month period operation in terms of fuel consumption (in gallons) or total hours;
  - d. Fuel sulfur concentration as required by condition #3 (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
  - e. Maintenance performed on this equipment.
- [17 CCR 93115.10(f)]
6. This equipment may operate in response to an impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time. The engine may be operated no more than 30 minutes prior to the forecasted outage and must be shut down immediately after the utility advises that the outage is no longer imminent or in effect.  
[17 CCR 93115.6(a)(2)]
7. This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.  
[17 CCR 93115.6(c)(1)(C)]
8. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS). In the event of a conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.  
[District Rule 1302]

9. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.  
[District Rule 204]

**u. E012226 – DIESEL IC ENGINE, EMERGENCY GENERATOR**

*EQUIPMENT DESCRIPTION: Engine is an EPA and CARB Certified Tier IVi, Date of Manufacture: 04-2014*

*One John Deere, Diesel fired internal combustion engine Model No. 4045TF290 and Serial No. PE4045R943712, Turbo Charged, producing 75 bhp with 4 cylinders at 2200 rpm while consuming a maximum of 33 lbs/hr. This equipment powers a Unknown Generator Model No. Unknown and Serial No. Unknown, rated at Unknown.*

1. This certified stationary compression-ignited internal combustion engine shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[40 CFR 60.4211(a)]
2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.  
[17 CCR 93115.10(d)]
3. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:
  - a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,
  - b. A cetane index or aromatic content, as follows: (i) A minimum cetane index of 40; or, (ii) A maximum aromatic content of 35 volume percent.[17 CCR 93115.5(a); 40 CFR 60.4207(b)]  
Note: Use of CARB certified ULSD fuel satisfies these requirements.
4. This engine shall be limited to use for emergency power, defined as in response to a fire or flood, or when commercially available power has been interrupted. In addition, this engine shall be operated no more than 50 hours per year for testing and maintenance. Engine operation for emergency use and for emission testing to show compliance with 93115.6(a)(3) does not count toward the testing and maintenance limit of 50 hours per year.  
[17 CCR 93115.6(a)(3)(1)(c)]
5. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information



specified below:

- a. Date of each use and duration of each use (in hours);
- b. Reason for use (testing & maintenance, emergency, required emission testing);
- c. Monthly and rolling 12-month period operation in terms of fuel consumption (in gallons) or total hours;
- d. Fuel sulfur concentration as required by condition #3 (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
- e. Maintenance performed on this equipment.

[17 CCR 93115.10(f)]

6. This equipment may operate in response to an impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time. The engine may be operated no more than 30 minutes prior to the forecasted outage and must be shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[17 CCR 93115.6(a)(2)]

7. This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.

[17 CCR 93115.6(c)(1)(C)]

8. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR 60, Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS). In the event of a conflict between these conditions and the ATCM or NSPS, the more stringent requirements shall govern.

[District Rule 1302]

9. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.

[District Rule 204]

v. **B011678 – ALTERNATIVE FUELS – STORAGE HALL AND CONVEYANCE SYSTEM**

*EQUIPMENT DESCRIPTION: 150' by 100' storage hall to accommodate alternative, supplemental and engineered fuels. Trailers will off-load fuels into the storage hall, either into a bin or stockpiled on the floor. A moving bed in the cargo floor slowly pushes material towards a spindle, providing an even feed to the initial screw conveyors, position 003. Approximately 2 days storage can be accommodated within the structure. From the screw conveyor, material is cast into the first drag chain, position 004, which is fully enclosed and starts within the storage hall. The first drag chain conveys material up a transfer tower, where a magnetic separator, position 5, separates ferrous metals. Material is then conveyed up the Preheat tower by the second fully*

*enclosed drag chain, position 006. A fuel hopper bin and screw conveyor base, position 007, located on the preheat tower allows a constant flow of alternative fuels. Fuel hopper is equipped with load cells, so that the input and output of the fuels can be adjusted as necessary. From the screw conveyor base, position 007, the fuel is conveyed to the weigh feeder, position 008, which operates by a weigh bridge and variable speed motor to accurately dose the fuel to a set point. The dosed fuel falls into a split screw position 009, splitting the flow of fuel to a rotary valve, position 12, and/or to a totally enclosed screw conveyor, position 010, that conveys material to a second rotary valve, position 011. Blowers, position 013 and 014, are utilized to provide the conveyance air for each rotary valve. Variable speed drives are utilized where appropriate so that material conveyance paths can be operated at the speed required. Vented air from the weigh belt and fuel hopper is directed to the process stream. Outlet gasses are monitored by the continuous monitoring system located on the K3 baghouse stack. There are no baghouses required for this system as all conveyance is enclosed and there are no PM emissions associated with this system.*

- 36.0 hp RECEPCION SILO SH-3200.13100-H2000 SECON N1; Motor is an SIEMENS-F-180L, 36 hp, operating at 1800 RPM
- 36.0 hp RECEPCION SILO SH-3200.13100-H2000 SECON N2; Motor is an SIEMENS-F-180L, 36 hp, operating at 1800 RPM
- 90.0 hp SCREW CONVEYOR DOMENECH AL-500.5000 N1; Motor 1, Motor 2, Motor 3, Motor 4, and Motor 5; motors are SIEMENS-F-160M, 18 hp each, operating at 1800 RPM
- 24.0 hp DRAG CONVEYOR DOMENECH TLP-1500.18000-N1; Motor is an SIEMENS-F-160M, 24 hp, operating at 1800 RPM
- 5.0 hp MAGNETIC DRUM SEPARATOR DOMENECH SFP-415-N1; Motor is an SIEMENS-F-100L, 5 hp, operating at 1800 RPM
- 70.0 hp DRAG CONVEYOR DOMENECH TLP-1500.75000-N2; Motor 1, Motor 2, motors are SIEMENS-F-180L, 35 hp each, operating at 1800 RPMS
- 90.0 hp SCREW CONVEYOR DOMENECH AL-500.5000 N2; Motor 1, Motor 2, Motor 3, Motor 4, and Motor 5; motors are SIEMENS-F-160M, 18 hp each, operating at 1800 RPM
- 14.0 hp WEIGHFEEDER DOMENECH AL-1800.7000; Motor 1 is a SIEMENS-F-132S, rated at 9 hp; Motor 2 is a SIEMENS-F-100L, rated at 5 hp; each operates at 1800 rpm
- 18.0 hp SCREW CONVEYOR DOMENECH TSU-630.4500-D N1; Motor 1, Motor 2, motors are SIEMENS-F-132S; 9 hp each, operating at 1800 RPM
- 24.0 hp SCREW CONVEYOR DOMENECH TSU-600; Motor is an SIEMENS-F-160M, 24 hp, operating at 1800 RPM
- 12.0 hp ROTARY VALVE DOMENECH ALV-800.800-NEUMAX N1; Motor is an SIEMENS- F-132M, 12 hp, operating at 1800 RPM
- 12.0 hp ROTARY VALVE DOMENECH ALV-800.800-NEUMAX N2; Motor is an SIEMENS- F-132M, 12 hp, operating at 1800 RPM
- 120.0 hp AIR BLOWER PG-303-F1-RNY34/30; Motor is an SIEMENS-F-280S, 120 hp, operating at 1800 RPM
- 120.0 hp AIR BLOWER PG-303-F1-RNY34/30; Motor is an SIEMENS-F-280S, 120 hp, operating at 1800 RPM

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*hp Total*

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.  
[District Rule 204]
2. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
3. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit Nos. C011945 and C011946.  
[District Rule 204]
4. All open material transfer points, such as conveyor drops, hopper and bin loading, shall be operated to minimize emissions of particulate matter.  
[District Rule 204]
5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity from any discharge point (including each bin vent stack).  
[District Rule 401]
6. The owner/operator shall maintain a log of all material throughput amounts so as to verify the above condition. Additionally, a log shall be kept of all inspections, repairs, and maintenance on equipment. Such logs or records shall be maintained at the facility for two (2) years, and be provided to District, State and Federal personnel upon request.  
[District Rule 204]

w. **B011939 – ALTERNATIVE FUELS – STORAGE HANDLING AND CONVEYANCE SYSTEM**

*EQUIPMENT DESCRIPTION:*

15.0 hp K2 -Screw Conveyor 1 - motor  
3.0 hp K2- Screw Weigh Feeder 1 - motor  
1.5 hp K2- Rotary feeder 1 - motor  
150.0 hp K2-Transport Blower 1 - motor  
0.75 hp K2- Transport Blower 1 cooling fan - motor  
2.0 hp K3- Rotary feeder airlock impact - motor  
2.0 hp K3- Rotary feeder airlock metering - motor  
3.0 hp K3- Screw weigh Feeder 1 - motor  
1.0 hp K3 - Rotary Feeder airlock metering - motor

60.0	hp	K3- transport blower 1 - motor
0.75	hp	K3- Transport Blower 1 cooling fan - motor
10.0	hp	Common hopper baghouse fan 1
3.0	hp	Common hopper aeration fan 1 - motor
2.0	hp	Common hopper rotary feeder 1 - motor
150.0	hp	Transport blower 2 - motor
0.75	hp	Transport blower 2 cooling fan - motor
<hr/>		
404.75	hp	Total

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.  
[District Rule 204]
2. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
3. This equipment shall not be operated unless transfer from the feeders and collection hopper are vented to a properly functioning baghouse operating with valid District permit C011940.  
[District Rules 204 and 1303]
4. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity from any discharge point.  
[40 CFR 63 Subpart LLL]
5. The owner/operator shall maintain a log of all material throughput amounts so as to verify the above condition. Additionally, a log shall be kept of all inspections, repairs, and maintenance on equipment. Such logs or records shall be maintained at the facility for five (5) years, and be provided to District, State and Federal personnel upon request.  
[40 CFR 63 Subpart LLL]
6. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
7. This equipment is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]

**x. T011937 – CKD QUARRY SILO**

*EQUIPMENT DESCRIPTION: 415 ton CKD silo; density of material stored is 60 PCF; pneumatic transfer rate is 15 TPH; 1,011 CFM at 10 PSIG.*

1. This equipment must not be operated unless it is vented to operating air pollution control equipment covered by valid District permit numbered C011941.  
[District Rule 1303]
2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications.  
[District Rule 204]
3. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules.  
[District Rule 204]
4. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District upon request. The log shall be kept for a minimum period of five and made available to District, State, or Federal personnel upon request.  
[District Rule 204]
5. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the River Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
6. This Storage Silo is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict, the more stringent requirements shall govern.  
[District Rule 204]

**y. C011940 – CKD HANDLING SYSTEM COLLECTION HOPPER BAGHOUSE**

*EQUIPMENT DESCRIPTION: CKD Handling System Baghouse with a Design Gas Flow rate of 1750 cubic feet per minute. Total number of filters is 49; material is POLYIMIDE (P84); length is; 8 feet; diameter is 6.088 inches. Serves CKD Handling System (B011939).*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those

recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall operate concurrently with CKD Handling System under District Permit B011939.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs
  - f. Average PM emissions in lb/ton of clinker per Condition 10;[District Rule 1302]
4. The systems air pollution control devices shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.  
[District Rule 1302]
5. This System shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
6. System dust collectors shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR 63.1343(b), 1345]
7. This air pollution control device shall discharge no more than 2.14 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description. To demonstrate compliance with this condition, the

owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.  
[District Rule 1302]

8. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
9. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]
10. Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this CKD baghouse shall not exceed 0.07 lb/ton of clinker.  
[40 CFR part 63 subpart LLL section 63.1343]

**z. C011941 – CKD HANDLING SYSTEM – QUARRY SILO BAGHOUSE**

*EQUIPMENT DESCRIPTION: CKD Handling System Baghouse with a Design Gas Flow rate of 2500 cubic feet per minute. Total number of filters is 64; material is POLYIMIDE (P84); length is; 8 feet; diameter is 6.088 inches. Serves CKD Storage Silo (T011937).*

*Facility has specified that the normal operating range for pressure differential is between 2 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with CKD Handling System under District Permit B011939.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test),

and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs
  - f. Average PM emissions in lb/ton of clinker per Condition 10;  
[District Rule 1302]
4. The systems air pollution control devices shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.  
[District Rule 1302]
  5. This System shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
  6. System dust collectors shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR 63.1343(b), 1345]
  7. This air pollution control device shall discharge no more than 2.14 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf of TSP at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.  
[District Rule 1302]
  8. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
  9. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]
  10. Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this CKD baghouse shall not exceed 0.07 lb/ton of clinker.



[40 CFR part 63 subpart LLL section 63.1343]

**aa. T009036 – EXTERIOR SOLID FUEL STORAGE, EMERGENCY**

*EQUIPMENT DESCRIPTION: An external 30,000 ton pile of coal and/or petroleum coke. This pile will be served by front-end loaders and haul trucks. This emergency pile is required to have a permit due to its restricted use and dust control requirements.*

1. This pile shall be compacted and chemically treated for dust suppression within thirty (30) days of pile formation completion. Any visible dust from this pile (except during pile loading and unloading) after pile exterior treatment shall be deemed a violation of this condition.  
[District Rule 204]
2. This pile shall be used during a solid fuel emergency only, except for turnover use or due to a stockpile fire. Turnover use is limited to turning the pile over no more than once every three years. For purposes of this condition, an emergency is defined as when coal stockpile levels are 3000 tons or less and/or petroleum coke stockpile levels are 500 tons or less.  
[District Rule 204]

***F) LIMESTONE INJECTION EQUIPMENT***

**a. B012195 – LIMESTONE INJECTION PROCESS**

*EQUIPMENT DESCRIPTION: Weigh Hopper, Blower, Rotary Valve and Fully enclosed Pneumatic Conveyance Components.*

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.  
[District Rule 204]
2. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
3. This equipment shall not be operated unless transfer from the feeders and collection hopper are vented to a properly functioning baghouse operating with valid District permit C012194.  
[District Rule 204 and 1303]
4. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits

greater than ten percent opacity from any discharge point.  
[40 CFR 63 Subpart LLL]

5. The owner/operator shall maintain a log of all material throughput amounts so as to verify the above condition. Additionally, a log shall be kept of all inspections, repairs, and maintenance on equipment. Such logs or records shall be maintained at the facility for five (5) years, and be provided to District, State and Federal personnel upon request.  
[40 CFR 63 Subpart LLL]
6. The emissions from this equipment has been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant. Road center line is defined as: from lat/long of 34.622956/-117.101988 to a lat/long of 34.619300/-117.103491; this project is 1774 feet long by 39 feet wide. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
7. This equipment is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict the more stringent requirements shall govern.  
[District Rule 204]

**b. T012193 – LIS1 LIMESTONE SILO**

*EQUIPMENT DESCRIPTION: LIS1 Limestone SILO consisting of: 200 ton Limestone silo; density of material stored is 85 PCF; pneumatic transfer rate is TBD TPH; TBD CFM at TBD PSIG.*

1. This equipment must not be operated unless it is vented to operating air pollution control equipment covered by valid District permit numbered C012194.  
[District Rule 1303]
2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications.  
[District Rule 204]
3. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules.  
[District Rule 204]
4. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District upon request. The log shall be kept for a minimum period of five and made available to District, State, or Federal personnel upon request.  
[District Rule 204]
5. Emissions from this equipment have been offset by simultaneous emission reductions

(SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.

[District Rules 204, 1302, 1303 and 1305]

6. This Baghouse is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict the more stringent requirements shall govern.

[District Rule 204]

### **c. C012194 – LISBH1 SILO – BAGHOUSE**

#### *EQUIPMENT DESCRIPTION:*

*Kiln Q2 Lime Silo air jet type Baghouse, manufactured by WAM, contains 7 polyester woven cartridges, 67 X 429 mm each, total filter area is 24.5 sq meters, flow rate of 1600 Nm<sup>3</sup>/hr, flow velocity of 0.018 m/s, inlet dust concentration of 15750mg/Nm<sup>3</sup>, outlet dust concentration of 2.65 mg/Nm<sup>3</sup>, duct density is 1.13 Kg/dm<sup>3</sup>.*

*Serves Limestone Storage Silo permitted under T012193*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]
2. This baghouse shall operate concurrently with Limestone Storage Silo permitted under T012193.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.

- e. Date and nature of any system repairs
  - f. Average PM emissions in lb/ton of clinker per Condition 10;  
[District Rule 1302]
4. The systems air pollution control devices shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.  
[District Rule 1302]
  5. This System shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
  6. System dust collectors shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR 63.1343(b), 1345]
  7. This air pollution control device shall discharge no more than 0.073 pounds per hour and no more than 0.32 tpy of PM10 at a maximum concentration of 0.005 gr/dscf of TSP at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.  
[District Rule 1302]
  8. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
  9. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

**d. T012252 – LIS2 LIME SILO**

*EQUIPMENT DESCRIPTION: 70 ton Lime silo; density of material stored is 85 PCF; pneumatic transfer rate is TBD TPH; TBD CFM at TBD PSIG for Kiln Q3.*

1. This equipment must not be operated unless it is vented to operating air pollution control equipment covered by valid District permit numbered C012196.  
[District Rule 1303]
2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications.  
[District Rule 204]
3. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules.  
[District Rule 204]
4. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to the District upon request. The log shall be kept for a minimum period of five and made available to District, State, or Federal personnel upon request.  
[District Rule 204]
5. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant. Road center line is defined as: from lat/long of 34.622956/-117.101988 to a lat/long of 34.619300/-117.103491; this project is 1774 feet long by 39 feet wide. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
6. This Baghouse is subject to District Rules and Regulations and the Cement NESHAP 40 CFR 63 Subpart LLL. In the event of conflict the more stringent requirements shall govern.  
[District Rule 204]

**e. C012196 – LISBH2 SILO – BAGHOUSE**

*EQUIPMENT DESCRIPTION: Kiln Q3 Lime Silo Baghouse Kiln Q2 Lime Silo air jet type Baghouse, manufactured by WAM, contains 7 polyester woven cartridges, 67 X 429 mm each, total filter area is 24.5 sq meters, flow rate of 1600 Nm<sup>3</sup>/hr, flow velocity of 0.018 m/s, inlet dust concentration of 15750mg/Nm<sup>3</sup>, outlet dust concentration of 2.65 mg/Nm<sup>3</sup>, duct density is 1.13 Kg/dm<sup>3</sup>.*

*Serves Limestone Storage Silo permitted under T012193*

*Facility has specified that the normal operating range for pressure differential is between 1 and 5 inches water column.*

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those

recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.  
[District Rule 204]

2. This baghouse shall operate concurrently with Limestone Storage Silo permitted under T012252.  
[District Rule 204]
3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63, Subpart LLL. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:
  - a. A site-specific monitoring plan;
  - b. Monthly reading of baghouse pressure drop, date and value;
  - c. Bags and bag suspension system inspection (quarterly);
  - d. Monthly baghouse stack observations using USEPA Method 22 (10-minute test), and USEPA Method 9 (30 minutes of observations) if visible emissions are observed. If no visible emissions are observed for six consecutive months, the frequency can change to semi-annually. If no emissions are observed semi-annually the frequency can be changed to annually. If any visible emissions are observed, the frequency reverts to monthly until no visible emissions are observed for six consecutive months.
  - e. Date and nature of any system repairs
  - f. Average PM emissions in lb/ton of clinker per Condition 10;[District Rule 1302]
4. The systems air pollution control devices shall be fitted with an operating air lock system on each material discharge port and shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained in accordance with manufacturer's recommendations and/or good engineering practices.  
[District Rule 1302]
5. This System shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F - Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.  
[District Rule 204]
6. System dust collectors shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.  
[40 CFR 63.1343(b), 1345]
7. This air pollution control device shall discharge no more than 0.073 pounds per hour and no more than 0.32 tpy of PM10 at a maximum concentration of 0.005 gr/dscf of TSP at the operating conditions given in the above description. To demonstrate compliance with this

condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.

[District Rule 1302]

8. Emissions from this equipment have been offset by simultaneous emission reductions (SER's) from the road paving project at the Quarry Plant main entrance roadway. This road shall be maintained in good order, free from pot holes and excessive dirt as to minimize fugitive particulate emissions.  
[District Rules 204, 1302, 1303 and 1305]
9. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions.  
[District Rule 204]

## ***G) AUXILIARY PLANTWIDE EQUIPMENT***

### **a. E013353 – DIESEL IC ENGINE, EMERGENCY FIREWATER PUMP**

*EQUIPMENT DESCRIPTION: Year of Manufacture is 2013. Engine is a certified Tier III 4-Stroke Rich Burn (4SRB) diesel engine, EPA Family DJDXL09.0114; EPA Certificate Number DJDXL09.0114-005; Engine Model Year 2013; DOES NOT HAVE A CORRESPONDING CARB EO CERTIFICATE. Engine meets USA EPA (NSPS) Tier 3 Emissions Certified Off-Road (40 CFR Part 89) and NSPS Stationary (40 CFR Part 60 Sub Part IIII). Engine Exhaust Flow is TBD cfm at TBD Degrees F.*

*Stack height is TBD feet high and Stack Diameter is TBD inches. Equipment elevation is 3620 feet above sea level.*

*One John Deere, Diesel fired internal combustion engine Model No. 6090HFC47A and Serial No. RG6080L117349, After Cooled, Electronic Control Module, High Pressure Fuel Injection (also EM), Turbo Charged, producing 422 bhp with 6 cylinders at 1760 rpm while consuming a maximum of 17 gal/hr. This equipment powers a Pump Model No. and Serial No. , rated at.*

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 204; 40 CFR 60.4211(a)]

2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.  
[Title 17 CCR 93115.10(d); 40 CFR 60.4209]
3. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:
  - a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,
  - b. A cetane index or aromatic content, as follows: (i) A minimum cetane index of 40; or, (ii) A maximum aromatic content of 35 volume percent.[17 CCR 93115.5(a); 40 CFR 60.4207(b)]

Note: Use of CARB certified ULSD fuel satisfies these requirements.
4. This unit shall be limited to emergency use only, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 50 hours per rolling consecutive twelve-month period for testing and maintenance, unless NFPA-25 (current edition) authorizes additional time: If the 50-hour limit is exceeded due to NFPA requirements, the owner/operator is to have the authorizing section of NFPA 25 available for review at all times. Time required for source testing will not be counted toward the 50-hour rolling annual limit.  
[District Rule 204; 17 CCR 93115.6(b)]
5. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
  - a. Date of each use and duration of each use (in hours per meter);
  - b. Reason for use (testing & maintenance, emergency, required emission testing);
  - c. Rolling consecutive twelve month period operation in terms of fuel consumption (in gallons) or total hours;
  - d. Records of all maintenance and inspections; and,
  - e. Fuel sulfur concentration as required by condition #3 (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).[District Rule 204; 17 CCR 93115.10(f); 40 CFR 60.4214; 40 CFR 70.6(a)(3)(ii)(b)]
6. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines, and 40 CFR 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.  
[District Rule 204]
7. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.  
[District Rule 107(b); H&S Code 39607 & 44341-44342; 40 CFR 51, Subpart]



**b. B013522 – DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR**

*EQUIPMENT DESCRIPTION: A certified Tier 4f diesel engine, EPA Family JJDXL06.8309, manufactured in 2018 and equipped with factory-installed emission controls. Exhaust flow is approximately 402 ACFM at 222 degrees Fahrenheit through a 6.9 foot tall by 4 inch diameter stack. Equipment elevation is 3620 feet above sea level:*

*One John Deere, Diesel fired internal combustion engine Model No. 6068HFC08-B and Serial No. PE6068U063710, After Cooled, Diesel Oxidation Catalyst, Diesel Particulate Filter, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Selective Catalytic Reduction, producing 187 bhp with 6 cylinders at 2200 rpm while consuming a maximum of 10.1 gal/hr. This equipment powers an Atlas Copco Compressor Model No. XAS 900 and Serial No. HOP081888, rated at 810 acfm @ 125 psig.*

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 1302]
2. This engine and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. (This system must be moved for a valid business purpose annually.) This engine may be used at either the Black Mountain Quarry or the River Plant.  
[District Rules 1302, 1303 and 1320; Title 17 CCR 93116.2(bb)]
3. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) per CARB Diesel or equivalent requirements; or alternative diesel fuel or CARB diesel fuel utilizing fuel additives that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines.  
[Title 17 CCR 93116.3(a)]
4. This engine shall not be operated unless all of the following emission control systems are properly functioning:
  - a. Ammonia Oxidation Catalyst;
  - b. Diesel Oxidation Catalyst;
  - c. Periodic Trap Oxidizer;
  - d. Diesel Particulate Filter; and,
  - e. Selective Catalytic Reduction SystemFurthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.  
[District Rule 1302; 40 CFR 60.4211]
5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

[Title 17 CCR 93116.4(c)(2)(A)]

6. This engine shall not operate for more than 8,760 hours in any consecutive 12-month period.  
[District Rules 1302 and 1320]
7. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
  - a. Monthly and consecutive 12-month period hours of operation (in hours);
  - b. Calendar year operation in terms of fuel consumption (in gallons) or total hours (to assist in CEI data collection);
  - c. Description of all repairs and/or maintenance actions on this engine and on any of the emission control systems noted in Condition #4; and,
  - d. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log.

[Title 17 CCR 93116.4(c)]

8. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Portable Compression Ignition Engines (Title 17 CCR 93116). In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern.  
[District Rule 1302; Title 17 CCR 93116.4(c)(2)(A)]
9. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.  
[District Rule 107(b); H&S Code 39607 & 44341-44342; 40 CFR 51, Subpart A]

**c. B013523 – DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR**

*EQUIPMENT DESCRIPTION: A certified Tier 4f diesel engine, EPA Family JJDXL06.8309, manufactured in 2018 and equipped with factory-installed emission controls. Exhaust flow is approximately 402 ACFM at 222 degrees Fahrenheit through a 6.9 foot tall by 4 inch diameter stack. Equipment elevation is 3620 feet above sea level:*

*One John Deere, Diesel fired internal combustion engine Model No. 6068HFC08-B and Serial No. PE6068U059617, After Cooled, Diesel Oxidation Catalyst, Diesel Particulate Filter, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Selective Catalytic Reduction, producing 187 bhp with 6 cylinders at 2200 rpm while consuming a maximum of 10.1 gal/hr. This equipment powers an Atlas Copco Compressor Model No. XAS 900 and Serial No. HOP081879, rated at 810 acfm @ 125 psig.*

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment

shall also be operated in accordance with all data and specifications submitted with the application for this permit.  
[District Rule 1302]

2. This engine and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. (This system must be moved for a valid business purpose annually.) This engine may be used at either the Black Mountain Quarry or the River Plant.  
[District Rules 1302, 1303 and 1320; Title 17 CCR 93116.2(bb)]
3. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) per CARB Diesel or equivalent requirements; or alternative diesel fuel or CARB diesel fuel utilizing fuel additives that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines.  
[Title 17 CCR 93116.3(a)]
4. This engine shall not be operated unless all of the following emission control systems are properly functioning:
  - f. Ammonia Oxidation Catalyst;
  - g. Diesel Oxidation Catalyst;
  - h. Periodic Trap Oxidizer;
  - i. Diesel Particulate Filter; and,
  - j. Selective Catalytic Reduction SystemFurthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.  
[District Rule 1302; 40 CFR 60.4211]
5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.  
[Title 17 CCR 93116.4(c)(2)(A)]
6. This engine shall not operate for more than 8,760 hours in any consecutive 12-month period.  
[District Rules 1302 and 1320]
7. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
  - e. Monthly and consecutive 12-month period hours of operation (in hours);
  - f. Calendar year operation in terms of fuel consumption (in gallons) or total hours (to assist in CEI data collection);
  - g. Description of all repairs and/or maintenance actions on this engine and on any of the emission control systems noted in Condition #4; and,
  - h. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log.

[Title 17 CCR 93116.4(c)]

8. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Portable Compression Ignition Engines (Title 17 CCR 93116). In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern.  
[District Rule 1302; Title 17 CCR 93116.4(c)(2)(A)]
  
9. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.  
[District Rule 107(b); H&S Code 39607 & 44341-44342; 40 CFR 51, Subpart A]

## ***H) GROUP #5 – 40 CFR 63 SUBPART LLL RELATED EQUIPMENT***

<b>MACT STANDARD -- PORTLAND CEMENT MANUFACTURING INDUSTRY</b>												
<b>40 CFR 63 Subpart LLL</b>												
Effective June 14, Date: 1999												
Affected Sources	Pollutant	Emission limit by Source Type			Monitoring and Compliance							
		Area	Major	Code	Performance Testing					Monitoring Requirements <sup>2 &amp; 3</sup>		
Method	Code				Initial Compliance Date	Existing	New	Frequency	Method	Code	Frequency	
40 CFR 63.1340(b)				40 CFR		40 CFR					40 CFR	
Applicability	HCl	Less than 10 tpy	10 or more tpy	CAA 112(a)(1) & (2)	Methods 320 or 321	63.1352(a)						
				CAA 112(a)(1) & (2)	Methods 26 or 26A	63.1352(b)						
	HAPs	Less than 10/25 tpy	10/25 or more tpy	CAA 112(a)(1) & (2)	Method 18 or 320	63.1352(c)						
All kiln and in-line kiln/raw mill	PM	0.30 lb per ton of feed (dry basis) <sup>10</sup>		63.1343(b)(1)	Method 5	63.1349(b)(1)	June 14, 2002	on Start up	5 years	PM CEMS <sup>7</sup>	63.1350(k)	Continuous
	Opacity		20%	63.1343(b)(2)	COM	63.1349(b)(1)(v)	June 14, 2002	on Start up	Continuous	COM	63.1350(c)(1)	Continuous
					Method 9	63.1349(b)(1)(vi)	June 14, 2002	on Start up	Daily	Method 9	63.1350(c)(2)	Daily
PMCD inlet greater than 400° F	Dioxins/furans	8.7x10 <sup>-11</sup> gr per dscf @ 7% O <sub>2</sub>		63.1343(b)(3)	Method 23	63.1349(b)(3)	June 14, 2002	on Start up	30 months	Temperature	63.1350(f)	Continuous
										Inspection <sup>4</sup>	63.1350(I)	Annual
PMCD inlet equal to or less than 400° F	Dioxins/furans	1.7x10 <sup>-10</sup> gr per dscf @ 7% O <sub>2</sub>		63.1343(b)(3)	Method 23	63.1349(b)(3)	June 14, 2002	on Start up	30 months	Temperature	63.1350(f)	Continuous
										Inspection <sup>4</sup>	63.1350(I)	Annual
Kiln and in-line kiln/raw mill, new Greenfield	THC	50 ppmvd as propane @ 7% O <sub>2</sub>	50 ppmvd as propane @ 7% O <sub>2</sub>	63.1343(c)(4)	SP-8A	63.1349(b)(4)	June 14, 2002	on Start up	5 years	SP-8A	63.1350(h)	Continuous
Clinker cooler	PM	0.10 lbs per ton of feed (dry basis)		63.1345(a)(1)	Method 5	63.1349(b)(1)	June 14, 2002	on Start up	5 years			

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	Opacity		10%	63.1345(a)(2)	COM	63.1349(b)(1)(v)	June 14, 2002	on Start up	Continuous	COM	63.1350(d)(1)	Continuous
					Method 9	63.1349(b)(1)(vi)	June 14, 2002	on Start up	Daily	Method 9	63.1350(d)(2)	Daily
Raw mill	Opacity		10%	63.1347	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 6m <sup>8</sup>	63.1350(e)	Daily <sup>9</sup>
Finish mill	Opacity		10%	63.1347	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 6m <sup>8</sup>	63.1350(e)	Daily <sup>9</sup>
Raw material dryer, new Brownfield	Opacity		10%	63.1346(a)	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Raw material dryer, new Greenfield	THC	50 ppmvd as propane @ 7% O <sub>2</sub>	50 ppmvd as propane @ 7% O <sub>2</sub>	63.1346(b) & (c)(1)	SP-8A	63.1349(b)(4)	June 14, 2002	on Start up	5 years	SP-8A	63.1350(h)	Continuous
	Opacity		10%	63.1346(c)(2)	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Raw material, clinker, or finished product storage bin	Opacity		10%	63.1348	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Conveying system transfer point <sup>1</sup>	Opacity		10%	63.1348	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Bagging system			10%	63.1348	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Bulk loading or unloading system			10%	63.1348	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Alkali Bypass				63.1344(a)(3) & (b)								
Carbon Injection				63.1344(c)						Injection Rate	63.1350(g)	Continuous

FOOTNOTES
1. Starting at raw material storage prior to raw mill
2. Operation and Maintenance (O&M) Plan 40 CFR 63.1350(a)
3. Startup, Shutdown or Malfunction (SSM) Plan 40 CFR 63.6(e)(3)
4. Inspection of combustion system (Per O&M Plan required by 40 CFR 63.1350(a))
5. Monthly for 6 months, if no visible emissions for 6 months then semi-annual & then annual; if visible emissions back to monthly Method 22 (Per O&M Plan required by 40 CFR 63.1350(a))
6. Within 2 working days by phone, FAX, email. When written report. (Per O&M Plan required by 40 CFR 63.1350(a))

NOTIFICATION - 40 CFR 63.1353		
Initial	Oct. 12, 1999	63.9(b)(2)
Performance Test	60 days prior	63.9(e)
Opacity Test	30 days prior	63.9(f)
CMS	60 days prior	63.9(g)
Compliance Status	60 days after test	63.9(h)

7. Deferred		
8. 'Method 22 - 6m' is a 6-minute Method 22 & 'Method 22 - 1m' is a 1-minute Method 22(Per O&M Plan required by 40 CFR 63.1350(a))		
9. If visible emissions then take corrective action within 1-hour per O&M Plan, follow-up Method 22 within 24-hours & if visible emissions conduct a 30-minute Method 9 within 1-hour. (Per O&M Plan required by 40 CFR 63.1350(a))		
10. Metric units for emission limits:		
All kiln and in-line kiln/raw mill		
PM		0.15 kg per Mg
Dioxins/furans		
	PMCD inlet greater than 400° F	0.20 ng per dscm @ 7% O <sub>2</sub>
	PMCD inlet equal to or less than 400° F	0.40 ng per dscm @ 7% O <sub>2</sub>
Clinker Cooler		
PM		0.05 kg per Mg

REPORTING - 40 CFR 63.1354		
Test results	within 60 days	63.10(d)(2)
Opacity Results	within 30 days	63.10(d)(3)
Extended Compliance	within 30 days	63.10(d)(4)
Consistent with SSM	every 6 months	63.10(d)(5)(i)
Not consistent with SSM	2 working days <sup>6</sup>	63.10(d)(5)(ii)
CMS Evaluations	within 60 days	63.8(e)(5)
Summary Report	Semiannually	63.10(e)(3)(vi)
RECORD KEEPING - 40 CFR 63.1355		
Record Retention	5 years	63.10(b)(1)
Retention on-site	2 years	63.10(b)(1)

**MACT STANDARD -- PORTLAND CEMENT MANUFACTURING INDUSTRY**

**40 CFR 63 Subpart LLL**

Effective Date: September 9, 2015

Affected Sources	Pollutant	Emission limit by Source Type			Monitoring and Compliance							
		Area	Major	Code	Method	Code	Initial Compliance Date		Frequency	Method	Code	Frequency
40 CFR 63.1340(b)				40 CFR		40 CFR	Existing	New			40 CFR	
Applicability	HCl	Less than 10 tpy	10 or more tpy	CAA 112(a)(1) & (2)	Methods 320 or 321	63.1352(a)						
				CAA 112(a)(1) & (2)	Methods 26 or 26A	63.1352(b)						
	HAPs	Less than 10/25 tpy	10/25 or more tpy	CAA 112(a)(1) & (2)	Method 18 or 320	63.1352(c)						
All kiln and in-line kiln/raw mill	PM	0.07 lb per ton clinker existing unit. 0.02 lb/ton clinker for new units. <sup>10</sup>		63.1343(b)(1)	Method 5	63.1349(b)(1)	September 9, 2015	on Start up	12 months	PM CEMS <sup>7</sup>	63.1350(k)	Continuous
PMCD inlet greater than 400° F	Dioxins/furans	0.02 ng per dscm @ 7% O <sub>2</sub> for existing units. 0.4 ng per dscm @ 7% O <sub>2</sub> for new units..		63.1343(b)(3)	Method 23	63.1349(b)(3)	September 9, 2015	on Start up	30 months	Temperature	63.1350(f)	Continuous
										Inspection <sup>4</sup>	63.1350(I)	Annual
PMCD inlet equal to or less than 400° F	Dioxins/furans	0.02 ng per dscm @ 7% O <sub>2</sub> for existing units. 0.4 ng per dscm @ 7% O <sub>2</sub> for new units..		63.1343(b)(3)	Method 23	63.1349(b)(3)	September 9, 2015	on Start up	30 months	Temperature	63.1350(f)	Continuous
										Inspection <sup>4</sup>	63.1350(I)	Annual
Kiln and in-line kiln/raw mill, new Greenfield	THC	24 ppmvd as propane @ 7% O <sub>2</sub>	24 ppmvd as propane @ 7% O <sub>2</sub>	63.1343(c)(4)	SP-8A	63.1349(b)(4)	September 9, 2015	on Start up	5 years	SP-8A	63.1350(h)	Continuous
Clinker cooler	PM	0.07 lb/ton clinker for existing units.		63.1345(a)(1)	Method 5	63.1349(b)(1)	September 9, 2015	on Start up	12 months			



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		0.02 lb/ton clinker for new units										
Raw mill	Opacity		10%	63.1347	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 6m <sup>8</sup>	63.1350(e)	Daily <sup>9</sup>
Finish mill	Opacity		10%	63.1347	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 6m <sup>8</sup>	63.1350(e)	Daily <sup>9</sup>
Raw material dryer, new Greenfield	THC	24 ppmvd as propane @ 7% O2	24 ppmvd as propane @ 7% O2	63.1346(b) & (c)(1)	SP-8A	63.1349(b)(4)	September 9, 2015	on Start up	5 years	SP-8A	63.1350(h)	Continuous
Raw material, clinker, or finished product storage bin	Opacity		10%	63.1348	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Conveying system transfer point <sup>1</sup>	Opacity		10%	63.1348	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Bagging system			10%	63.1348	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Bulk loading or unloading system			10%	63.1348	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 1m <sup>8</sup>	63.1350(a)(4) & (j)	M/SA/A <sup>5</sup>
Alkali Bypass				63.1344(a)(3) & (b)								
Carbon Injection				63.1344(c)						Injection Rate	63.1350(g)	Continuous

**FOOTNOTES**

1. Starting at raw material storage prior to raw mill
2. Operation and Maintenance (O&M) Plan 40 CFR 63.1350(a)
3. Startup, Shutdown or Malfunction (SSM) Plan 40 CFR 63.6(e)(3)
4. Inspection of combustion system (Per O&M Plan required by 40 CFR 63.1350(a))
5. Monthly for 6 months, if no visible emissions for 6 months then semi-annual & then annual; if visible emissions back to monthly Method 22 (Per O&M Plan required by 40 CFR 63.1350(a))
6. Within 2 working days by phone, FAX, email. When written report. (Per O&M Plan required by 40 CFR 63.1350(a))
7. Deferred
8. 'Method 22 - 6m' is a 6-minute Method 22 & 'Method 22 - 1m' is a 1-minute Method 22 (Per O&M Plan required by 40 CFR 63.1350(a))

**NOTIFICATION - 40 CFR 63.1353**

Initial	Oct. 12, 1999	63.9(b)(2)
Performance Test	60 days prior	63.9(e)
Opacity Test	30 days prior	63.9(f)
CMS	60 days prior	63.9(g)
Compliance Status	60 days after test	63.9(h)
<b>REPORTING - 40 CFR 63.1354</b>		
Test results	within 60 days	63.10(d)(2)

9. If visible emissions then take corrective action within 1-hour per O&M Plan, follow-up Method 22 within 24-hours & if visible emissions conduct a 30-minute Method 9 within 1-hour. (Per O&M Plan required by 40 CFR 63.1350(a))		
10. Metric units for emission limits:		
All kiln and in-line kiln/raw mill		
PM		0.15 kg per Mg
Dioxins/furans		
PMCD inlet greater than 400° F		0.20 ng per dscm @ 7% O <sub>2</sub>
PMCD inlet equal to or less than 400° F		0.40 ng per dscm @ 7% O <sub>2</sub>
Clinker Cooler		
PM		0.05 kg per Mg

Opacity Results	within 30 days	63.10(d)(3)
Extended Compliance	within 30 days	63.10(d)(4)
Consistent with SSM	every 6 months	63.10(d)(5)(i)
Not consistent with SSM	2 working days <sup>6</sup>	63.10(d)(5)(ii)
CMS Evaluations	within 60 days	63.8(e)(5)
Summary Report	Semiannually	63.10(e)(3)(vi)
RECORD KEEPING - 40 CFR 63.1355		
Record Retention	5 years	63.10(b)(1)
Retention on-site	2 years	63.10(b)(1)

a. **40 CFR 63 SUBPART LLL – NATIONAL EMISSIONS  
STANDARDS FOR HAZARDOUS AIR POLLUTANTS FROM  
THE PORTLAND CEMENT MANUFACTURING INDUSTRY**

**Title 40 - Protection of Environment**

**Chapter I - Environmental Protection Agency Subchapter C - Air  
Programs**

**Part 63 - National Emission Standards for Hazardous Air Pollutants for  
Source Categories**

**Authority:** 42 U.S.C. 7401 *et seq.*

**Source:** 57 FR 61992, Dec. 29, 1992, unless otherwise noted.

**Subpart LLL National Emission Standards for Hazardous Air Pollutants From the Portland Cement  
Manufacturing Industry**

General

- § 63.1340 What parts of my plant does this subpart cover?
- § 63.1341 Definitions.  
Emission Standards and Operating Limits
- § 63.1342 Standards: General.
- § 63.1343 What standards apply to my kilns, clinker coolers, raw material dryers, and open  
clinker storage piles?
- § 63.1344 *[Reserved]*
- § 63.1345 Emissions limits for affected sources other than kilns; clinker coolers; new and  
reconstructed raw material dryers.
- § 63.1346 Operating limits for kilns.
- § 63.1347 Operation and maintenance plan requirements.
- § 63.1348 Compliance requirements. Monitoring and Compliance Provisions
- § 63.1349 Performance testing requirements.
- § 63.1350 Monitoring requirements.
- § 63.1351 Compliance dates.
- § 63.1352 Additional test methods.

Notification, Reporting and Recordkeeping

- § 63.1353 Notification requirements.
- § 63.1354 Reporting requirements.
- § 63.1355 Recordkeeping requirements.

Other

- § 63.1356 Sources with multiple emissions limit or monitoring requirements.
- § 63.1357 *[Reserved]*
- § 63.1358 Implementation and enforcement.
- § 63.1359 *[Reserved]*

**Table 1 to Subpart LLL of Part 63**

Applicability of General Provisions

**Table 2 to Subpart LLL of Part 63**

1989 Toxic Equivalency Factors (TEFs)

**Subpart LLL - National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry**

**Source:** 64 FR 31925, June 14, 1999, unless otherwise noted.

**GENERAL**

**§ 63.1340 What parts of my plant does this subpart cover?**

- (a) The provisions of this subpart apply to each new and existing portland cement plant which is a major source or an area source as defined in § 63.2.
- (b) The affected sources subject to this subpart are:
  - (1) Each kiln including alkali bypasses and inline coal mills, except for kilns that burn hazardous waste and are subject to and regulated under subpart EEE of this part;
  - (2) Each clinker cooler at any portland cement plant;
  - (3) Each raw mill at any portland cement plant;
  - (4) Each finish mill at any portland cement plant;
  - (5) Each raw material dryer at any portland cement plant;
  - (6) Each raw material, clinker, or finished product storage bin at any portland cement plant that is a major source;
  - (7) Each conveying system transfer point including those associated with coal preparation used to convey coal from the mill to the kiln at any portland cement plant that is a major source;
  - (8) Each bagging and bulk loading and unloading system at any portland cement plant that is a major source; and
  - (9) Each open clinker storage pile at any portland cement plant.
- (c) Onsite sources that are subject to standards for nonmetallic mineral processing plants in subpart OOO, part 60 of this chapter are not subject to this subpart. Crushers are not covered by this subpart regardless of their location.
- (d) If you are subject to any of the provisions of this subpart you are also subject to title V permitting

requirements.

[75 FR 55051, Sept. 9, 2010, as amended at 78 FR 10036, Feb. 12, 2013]

### § 63.1341 Definitions.

All terms used in this subpart that are not defined in this section have the meaning given to them in the CAA and in subpart A of this part.

*Alkali bypass* means a duct between the feed end of the kiln and the preheater tower through which a portion of the kiln exit gas stream is withdrawn and quickly cooled by air or water to avoid excessive buildup of alkali, chloride and/or sulfur on the raw feed. This may also be referred to as the “kiln exhaust gas bypass”.

*Bagging system* means the equipment which fills bags with portland cement.

*Bin* means a manmade enclosure for storage of raw materials, clinker, or finished product prior to further processing at a portland cement plant.

*Clinker* means the product of the process in which limestone and other materials are heated in the kiln and is then ground with gypsum and other materials to form cement.

*Clinker cooler* means equipment into which clinker product leaving the kiln is placed to be cooled by air supplied by a forced draft or natural draft supply system.

*Continuous monitor* means a device which continuously samples the regulated parameter specified in § 63.1350 of this subpart without interruption, evaluates the detector response at least once every 15 seconds, and computes and records the average value at least every 60 seconds, except during allowable periods of calibration and except as defined otherwise by the continuous emission monitoring system performance specifications in appendix B to part 60 of this chapter.

*Conveying system* means a device for transporting materials from one piece of equipment or location to another location within a facility. Conveying systems include but are not limited to the following: feeders, belt conveyors, bucket elevators and pneumatic systems.

*Conveying system transfer point* means a point where any material including but not limited to feed material, fuel, clinker or product, is transferred to or from a conveying system, or between separate parts of a conveying system.

*Crusher* means a machine designed to reduce large rocks from the quarry into materials approximately the size of gravel.

*Dioxins and furans (D/F)* means tetra-, penta-, hexa-, hepta-, and octa-chlorinated dibenzo dioxins and furans.

*Facility* means all contiguous or adjoining property that is under common ownership or control, including properties that are separated only by a road or other public right-of-way.

*Feed* means the prepared and mixed materials, which include but are not limited to materials such as limestone, clay, shale, sand, iron ore, mill scale, cement kiln dust and flyash, that are fed to the kiln. Feed does not include the fuels used in the kiln to produce heat to form the clinker product.

*Finish mill* means a roll crusher, ball and tube mill or other size reduction equipment used to grind clinker to a fine powder. Gypsum and other materials may be added to and blended with clinker in a finish mill. The finish mill also includes the air separator associated with the finish mill.

*Greenfield kiln, in-line kiln/raw mill, or raw material dryer* means a kiln, in-line kiln/raw mill, or raw material dryer for which construction is commenced at a plant site (where no kilns and no in-line kiln/raw mills were in operation at any time prior to March 24, 1998) after March 24, 1998.

*Hazardous waste* is defined in § 261.3 of this chapter.

*In-line coal mill* means a coal mill using kiln exhaust gases in their process. A coal mill with a heat source other than the kiln or a coal mill using exhaust gases from the clinker cooler is not an in-line coal mill.

*In-line kiln/raw mill* means a system in a portland cement production process where a dry kiln system is integrated with the raw mill so that all or a portion of the kiln exhaust gases are used to perform the drying operation of the raw mill, with no auxiliary heat source used. In this system the kiln is capable of operating without the raw mill operating, but the raw mill cannot operate without the kiln gases, and consequently, the raw mill does not generate a separate exhaust gas stream.

*Kiln* means a device, including any associated preheater or precalciner devices, inline raw mills, inline coal mills or alkali bypasses that produces clinker by heating limestone and other materials for subsequent production of portland cement. Because the inline raw mill and inline coal mill are considered an integral part of the kiln, for purposes of determining the appropriate emissions limit, the term kiln also applies to the exhaust of the inline raw mill and the inline coal mill.

*Kiln exhaust gas bypass* means alkali bypass.

*Monovent* means an exhaust configuration of a building or emission control device (e. g. positive pressure fabric filter) that extends the length of the structure and has a width very small in relation to its length (i. e., length to width ratio is typically greater than 5:1). The exhaust may be an open vent with or without a roof, louvered vents, or a combination of such features.

*New brownfield kiln, in-line kiln raw mill, or raw material dryer* means a kiln, in-line kiln/raw mill or raw material dryer for which construction is commenced at a plant site (where kilns and/or in-line kiln/raw mills were in operation prior to March 24, 1998) after March 24, 1998.

*New source* means any source that commenced construction or reconstruction after May 6, 2009, for purposes of determining the applicability of the kiln, clinker cooler and raw material dryer emissions limits for mercury, PM, THC, and HCl.

*One-minute average* means the average of thermocouple or other sensor responses calculated at least every 60 seconds from responses obtained at least once during each consecutive 15 second period.

*Open clinker storage pile* means a clinker storage pile on the ground for more than three days that is not completely enclosed in a building or structure.

*Operating day* means any 24-hour period beginning at 12:00 midnight during which the kiln produces any amount of clinker. For calculating the 30-day rolling average emissions, kiln operating days do not include the hours of operation during startup or shutdown.

*Portland cement plant* means any facility manufacturing portland cement.

*Raw material dryer* means an impact dryer, drum dryer, paddle-equipped rapid dryer, air separator, or other equipment used to reduce the moisture content of feed or other materials.

*Raw mill* means a ball and tube mill, vertical roller mill or other size reduction equipment, that is not part of an in-line kiln/raw mill, used to grind feed to the appropriate size. Moisture may be added or removed from the feed during the grinding operation. If the raw mill is used to remove moisture from feed materials, it is also, by definition, a raw material dryer. The raw mill also includes the air separator associated with the raw mill.

*Rolling average* means the weighted average of all data, meeting QA/QC requirements or otherwise normalized, collected during the applicable averaging period. The period of a rolling average stipulates the frequency of data averaging and reporting. To demonstrate compliance with an operating parameter a 30-day rolling average period requires calculation of a new average value each operating day and shall include the average of all the hourly averages of the specific operating parameter. For demonstration of compliance with an emissions limit based on pollutant concentration a 30-day rolling average is comprised of the average of all the hourly average concentrations over the previous 30 operating days. For demonstration of compliance with an emissions limit based on lbs-pollutant per production unit the 30-day rolling average is calculated by summing the hourly mass emissions over the previous 30 operating days, then dividing that sum by the total production during the same period.

*Run average* means the average of the recorded parameter values for a run.

*Shutdown* means the cessation of kiln operation. Shutdown begins when feed to the kiln is halted and ends when continuous kiln rotation ceases.

*Sorbent* means activated carbon, lime, or any other type of material injected into kiln exhaust for the purposes of capturing and removing any hazardous air pollutant.

*Startup* means the time from when a shutdown kiln first begins firing fuel until it begins producing clinker. Startup begins when a shutdown kiln turns on the induced draft fan and begins firing fuel in the main burner. Startup ends when feed is being continuously introduced into the kiln for at least 120 minutes or when the feed rate exceeds 60 percent of the kiln design limitation rate, whichever occurs first.

*TEQ* means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p- dioxins and -dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989. The 1989 Toxic Equivalency Factors (TEFs) used to determine the dioxin and furan TEQs are listed in

Table 2 to subpart LLL of Part 63.

*Total organic HAP* means, for the purposes of this subpart, the sum of the concentrations of compounds of formaldehyde, benzene, toluene, styrene, m-xylene, p-xylene, o-xylene, acetaldehyde, and naphthalene as measured by EPA Test Method 320 or Method 18 of appendix A to this part or ASTM D6348-03[1] or a combination of these methods, as appropriate. If measurement results for any pollutant are reported as below the method detection level

(e.g., laboratory analytical results for one or more sample components are below the method defined analytical detection level), you must use the method detection level as the measured emissions level for that pollutant in calculating the total organic HAP value. The measured result for a multiple component analysis (e.g., analytical values for multiple Method 18 fractions) may include a combination of method detection level data and analytical data reported above the method detection level. The owner or operator of an affected source may request the use of other test methods to make this determination under paragraphs 63.7(e)(2)(ii) and (f) of this part.

*Totally enclosed conveying system transfer point* means a conveying system transfer point that is enclosed on all sides, top, and bottom.

[64 FR 31925, June 14, 1999, as amended at 67 FR 16619, Apr. 5, 2002; 75 FR 55051, Sept. 9, 2010; 78 FR 10037, Feb. 12, 2013; 80 FR 44778, July 27, 2015; 83 FR 35132, July 25, 2018]

## **EMISSION STANDARDS AND OPERATING LIMITS**

### **§ 63.1342 Standards: General.**

Table 1 to this subpart provides cross references to the 40 CFR part 63, subpart A, general provisions, indicating the applicability of the general provisions requirements to subpart LLL.

[71 FR 76549, Dec. 20, 2006]

### **§ 63.1343 What standards apply to my kilns, clinker coolers, raw material dryers, and open clinker storage piles?**

- (a) *General.* The provisions in this section apply to each kiln and any alkali bypass associated with that kiln, clinker cooler, raw material dryer, and open clinker storage pile. All D/F, HCl, and total hydrocarbon (THC) emissions limit are on a dry basis. The D/F, HCl, and THC limits for kilns are corrected to 7 percent oxygen. All THC emissions limits are measured as propane. Standards for mercury and THC are based on a rolling 30-day average. If using a CEMS to determine compliance with the HCl standard, this standard is based on a rolling 30-day average. You must ensure appropriate corrections for moisture are made when measuring flow rates used to calculate mercury emissions. The 30-day period means all operating hours within 30 consecutive kiln operating days excluding periods of startup and shutdown. All emissions limits for kilns, clinker



coolers, and raw material dryers currently in effect that are superseded by the limits below continue to apply until the compliance date of the limits below, or until the source certifies compliance with the limits below, whichever is earlier.

[1] When using ASTM D6348-03, the following conditions must be met:

- (1) The test plan preparation and implementation in the Annexes to ASTM D6348-03, Sections A1 through A8 are mandatory; (2) For ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be determined for each target analyte (see Equation A5.5); (3) For the ASTM D6348-03 test data to be acceptable for a target analyte percent R must be 70 percent  $\geq R \leq 130$  percent; and (4) The percent R value for each compound must be reported in the test report and all field measurements corrected with the calculated percent R value for that compound using the following equation: Reported Result = The measured concentration in the stack divided by the calculated percent R value and then the whole term multiplied by 100.

(b) *Kilns, clinker coolers, raw material dryers, raw mills, and finish mills.*

- (1) The emissions limits for these sources are shown in Table 1.

Table 1 - Emissions Limits for Kilns, Clinker Coolers, Raw Material Dryers, Raw and Finish Mills

<b>If your source is a (an):</b>	<b>And the operating mode is:</b>	<b>And if is located at a:</b>	<b>Your emissions limits are:</b>	<b>And the units of the emissions limit are:</b>	<b>The oxygen correction factor is:</b>
1. Existing kiln	Normal operation	Major or area source	PM1 0.07	lb/ton clinker	NA.
			D/F2 0.2	ng/dscm (TEQ)	7 percent.
			Mercury 55	lb/MM tons clinker	NA.
			THC3 4 24	ppmvd	7 percent.
2. Existing kiln	Normal operation	Major source	HCl 3	ppmvd	7 percent.
3. Existing kiln	Startup and shutdown	Major or area source	Work practices (63.1346(g))	NA	NA.
4. New kiln	Normal operation	Major or area source	PM1 0.02	lb/ton clinker	NA.
			D/F2 0.2	ng/dscm (TEQ)	7 percent.
			Mercury 21	lb/MM tons clinker	NA.
			THC3 4 24	ppmvd	7 percent.

5. New kiln	Normal operation	Major source	HCl 3	ppmvd	7 percent.
6. New kiln	Startup and shutdown	Major or area source	Work practices (63.1346(g))	NA	NA.
7. Existing clinker cooler	Normal operation	Major or area source	PM 0.07	lb/ton clinker	NA.
8. Existing clinker cooler	Startup and shutdown	Major or area source	Work practices (63.1348(b)(9))	NA	NA.
9. New clinker cooler	Normal operation	Major or area source	PM 0.02	lb/ton clinker	NA.
10. New clinker cooler	Startup and shutdown	Major or area source	Work practices (63.1348(b)(9))	NA	NA.
11. Existing or new raw material dryer	Normal operation	Major or area source	THC3 4 24	ppmvd	NA.
12. Existing or new raw material dryer	Startup and shutdown	Major or area source	Work practices (63.1348(b)(9))	NA	NA.
13. Existing or new raw or finish mill	All operating modes	Major source	Opacity 10	percent	NA.

1. The initial and subsequent PM performance tests are performed using Method 5 or 5I and consist of three test runs.

2. If the average temperature at the inlet to the first PM control device (fabric filter or electrostatic precipitator) during the D/F performance test is 400 °F or less, this limit is changed to 0.40 ng/dscm (TEQ).

3. Measured as propane.

4. Any source subject to the 24 ppmvd THC limit may elect to meet an alternative limit of 12 ppmvd for total organic HAP.

- (1) When there is an alkali bypass and/or an inline coal mill with a separate stack associated with a kiln, the combined PM emissions from the kiln and the alkali bypass stack and/or the inline coal mill stack are subject to the PM emissions limit. Existing kilns that combine the clinker cooler exhaust and/or alkali bypass and/or coal mill exhaust with the kiln exhaust and send the combined exhaust to the PM control device as a single stream may meet an alternative PM emissions limit. This limit is calculated using Equation 1 of this section:

$$PM_{alt} = ( 0.0060 \times 1.65 ) ( Q_k + Q_c + Q_{ab} + Q_{cm} ) / ( 7000 ) \text{ (Eq. 1)}$$

Where:

$PM_{alt}$  = Alternative PM emission limit for commingled sources.

0.006 = The PM exhaust concentration (gr/dscf) equivalent to 0.070 lb per ton clinker where clinker cooler and kiln exhaust gas are not combined.

1.65 = The conversion factor of ton feed per ton clinker.

$Q_k$  = The exhaust flow of the kiln (dscf/ton feed).

$Q_c$  = The exhaust flow of the clinker cooler (dscf/ton feed).  $Q_{ab}$  = The exhaust flow of the alkali bypass (dscf/ton feed).  $Q_{cm}$  = The exhaust flow of the coal mill (dscf/ton feed).

7000 = The conversion factor for grains (gr) per lb.

For new kilns that combine kiln exhaust, clinker cooler gas and/or coal mill and alkali bypass exhaust, the limit is calculated using Equation 2 of this section:

$$PM_{alt} = ( 0.0020 \times 1.65 ) ( Q_k + Q_c + Q_{ab} + Q_{cm} ) / ( 7000 ) \text{ (Eq. 2)}$$

Where:

$PM_{alt}$  = Alternative PM emission limit for commingled sources.

0.002 = The PM exhaust concentration (gr/dscf) equivalent to 0.020 lb per ton clinker where clinker cooler and kiln exhaust gas are not combined.

1.65 = The conversion factor of ton feed per ton clinker.

$Q_k$  = The exhaust flow of the kiln (dscf/ton feed).

$Q_c$  = The exhaust flow of the clinker cooler (dscf/ton feed).  $Q_{ab}$  = The exhaust flow of the alkali bypass (dscf/ton feed).  $Q_{cm}$  = The exhaust flow of the coal mill (dscf/ton feed).

7000 = The conversion factor for gr per lb.

- (c) *Open clinker storage pile.* The owner or operator of an open clinker storage pile must prepare, and operate in accordance with, the fugitive dust emissions control measures, described in their operation and maintenance plan (see § 63.1347 of this subpart), that is appropriate for the site conditions as specified in paragraphs (c)(1) through (3) of this section. The operation and maintenance plan must also describe the measures that will be used to minimize fugitive dust emissions from piles of clinker, such as accidental spillage, that are not part of open clinker storage piles.
- (1) The operation and maintenance plan must identify and describe the location of each current or future open clinker storage pile and the fugitive dust emissions control measures the owner or operator will use to minimize fugitive dust emissions from each open clinker storage pile.

- (2) For open clinker storage piles, the operations and maintenance plan must specify that one or more of the following control measures will be used to minimize to the greatest extent practicable fugitive dust from open clinker storage piles: Locating the source inside a partial enclosure, installing and operating a water spray or fogging system, applying appropriate chemical dust suppression agents, use of a wind barrier, compaction, use of tarpaulin or other equally effective cover or use of a vegetative cover. You must select, for inclusion in the operations and maintenance plan, the fugitive dust control measure or measures listed in this paragraph that are most appropriate for site conditions. The plan must also explain how the measure or measures selected are applicable and appropriate for site conditions. In addition, the plan must be revised as needed to reflect any changing conditions at the source.
- (3) Temporary piles of clinker that result from accidental spillage or clinker storage cleaning operations must be cleaned up within 3 days.

[78 FR 10037, Feb. 12, 2013, as amended at 80 FR 44779, July 27, 2015; 83 FR 35132, July 25, 2018]

#### § 63.1344 [Reserved]

#### § 63.1345 Emissions limits for affected sources other than kilns; clinker coolers; new and reconstructed raw material dryers.

The owner or operator of each new or existing raw material, clinker, or finished product storage bin; conveying system transfer point; bagging system; bulk loading or unloading system; raw and finish mills; and each existing raw material dryer, at a facility which is a major source subject to the provisions of this subpart must not cause to be discharged any gases from these affected sources which exhibit opacity in excess of 10 percent.

[78 FR 10039, Feb. 12, 2013]

#### § 63.1346 Operating limits for kilns.

- (a) The owner or operator of a kiln subject to a D/F emissions limitation under § 63.1343 must operate the kiln such that the temperature of the gas at the inlet to the kiln PM control device (PMCD) and alkali bypass PMCD, if applicable, does not exceed the applicable temperature limit specified in paragraph (b) of this section. The owner or operator of an in-line kiln/raw mill subject to a D/F emissions limitation under § 63.1343 must operate the in-line kiln/raw mill, such that:
  - (1) When the raw mill of the in-line kiln/raw mill is operating, the applicable temperature limit for the main in-line kiln/raw mill exhaust, specified in paragraph (b) of this section and established during the performance test when the raw mill was operating, is not exceeded, except during periods of startup and shutdown when the temperature limit may be exceeded by no more than 10 percent.

- (2) When the raw mill of the in-line kiln/raw mill is not operating, the applicable temperature limit for the main in- line kiln/raw mill exhaust, specified in paragraph (b) of this section and established during the performance test when the raw mill was not operating, is not exceeded, except during periods of startup/shutdown when the temperature limit may be exceeded by no more than 10 percent.
  - (3) If the in-line kiln/raw mill is equipped with an alkali bypass, the applicable temperature limit for the alkali bypass specified in paragraph (b) of this section and established during the performance test, with or without the raw mill operating, is not exceeded, except during periods of startup/shutdown when the temperature limit may be exceeded by no more than 10 percent.
- (b) The temperature limit for affected sources meeting the limits of paragraph (a) of this section or paragraphs (a)(1) through (a)(3) of this section is determined in accordance with § 63.1349(b)(3)(iv).
  - (c) For an affected source subject to a D/F emissions limitation under § ~~63.1343~~ that employs sorbent injection as an emission control technique for D/F control, you must operate the sorbent injection system in accordance with paragraphs (c)(1) and (2) of this section.
    - (1) The rolling three-hour average activated sorbent injection rate must be equal to or greater than the sorbent injection rate determined in accordance with § 63.1349(b)(3)(vi).
    - (2) You must either:
      - (i) Maintain the minimum activated carbon injection carrier gas flow rate, as a rolling three-hour average, based on the manufacturer's specifications. These specifications must be documented in the test plan developed in accordance with § 63.7(c), or
      - (ii) Maintain the minimum activated carbon injection carrier gas pressure drop, as a rolling three-hour average, based on the manufacturer's specifications. These specifications must be documented in the test plan developed in accordance with § 63.7(c).
  - (d) Except as provided in paragraph (e) of this section, for an affected source subject to a D/F emissions limitation under § ~~63.1343~~ that employs carbon injection as an emission control technique you must specify and use the brand and type of sorbent used during the performance test until a subsequent performance test is conducted, unless the site-specific performance test plan contains documentation of key parameters that affect adsorption and the owner or operator establishes limits based on those parameters, and the limits on these parameters are maintained.
  - (e) For an affected source subject to a D/F emissions limitation under § ~~63.1343~~ that employs carbon injection as an emission control technique you may substitute, at any time, a different brand or type of sorbent provided that the replacement has equivalent or improved properties compared to the sorbent specified in the site-specific performance test plan and used in the performance test. The owner or operator must maintain documentation that the substitute sorbent will provide the same or better level of control as the original sorbent.

- (f) No kiln may use as a raw material or fuel any fly ash where the mercury content of the fly ash has been increased through the use of activated carbon, or any other sorbent, unless the facility can demonstrate that the use of that fly ash will not result in an increase in mercury emissions over baseline emissions (i.e., emissions not using the fly ash). The facility has the burden of proving there has been no emissions increase over baseline. Once the kiln is in compliance with a mercury emissions limit specified in § 63.1343, this paragraph no longer applies.
- (g) During periods of startup and shutdown you must meet the requirements listed in (g)(1) through (4) of this section.
- (1) During startup you must use any one or combination of the following clean fuels: natural gas, synthetic natural gas, propane, distillate oil, synthesis gas (syngas), and ultra-low sulfur diesel (ULSD) until the kiln reaches a temperature of 1200 degrees Fahrenheit.
  - (2) Combustion of the primary kiln fuel may commence once the kiln temperature reaches 1200 degrees Fahrenheit.
  - (3) All dry sorbent and activated carbon systems that control hazardous air pollutants must be turned on and operating at the time the gas stream at the inlet to the baghouse or ESP reaches 300 degrees Fahrenheit (five minute average) during startup. Temperature of the gas stream is to be measured at the inlet of the baghouse or ESP every minute. Such injection systems can be turned off during shutdown. Particulate control and all remaining devices that control hazardous air pollutants should be operational during startup and shutdown.
  - (4) You must keep records as specified in § 63.1355 during periods of startup and shutdown.

[75 FR 55054, Sept. 9, 2010, as amended at 78 FR 10039, Feb. 12, 2013; 80 FR 44781, July 27, 2015]

### **§ 63.1347 Operation and maintenance plan requirements.**

- (a) You must prepare, for each affected source subject to the provisions of this subpart, a written operations and maintenance plan. The plan must be submitted to the Administrator for review and approval as part of the application for a part 70 permit and must include the following information:
- (1) Procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emissions limits and operating limits, including fugitive dust control measures for open clinker piles of §§ 63.1343, 63.1345, and 63.1346. Your operations and maintenance plan must address periods of startup and shutdown.
  - (2) Corrective actions to be taken when required by paragraph § 63.1350(f)(3);
  - (3) Procedures to be used during an inspection of the components of the combustion system of each kiln and each in-line kiln raw mill located at the facility at least once per year.

- (b) Failure to comply with any provision of the operations and maintenance plan developed in accordance with this section is a violation of the standard.

[75 FR 55054, Sept. 9, 2010, as amended at 78 FR 10040, Feb. 12, 2013; 80 FR 44781, July 27, 2015]

**§ 63.1348 Compliance requirements.**

- (a) *Initial Performance Test Requirements.* For an affected source subject to this subpart, you must demonstrate compliance with the emissions standards and operating limits by using the test methods and procedures in §§ 63.1349 and 63.7. Any affected source that was unable to demonstrate compliance before the compliance date due to being idled, or that had demonstrated compliance but was idled during the normal window for the next compliance test, must demonstrate compliance within 180 days after coming out of the idle period. Any cement kiln that has been subject to the requirements of subpart CCCC or subpart DDDD of 40 CFR Part 60, and is now electing to cease burning nonhazardous solid waste and become subject to this subpart, must meet all the initial compliance testing requirements each time it becomes subject to this subpart, even if it was previously subject to this subpart.

NOTE TO PARAGRAPH (A): The first day of the 30 operating day performance test is the first day after the compliance date following completion of the field testing and data collection that demonstrates that the CPMS or CEMS has satisfied the relevant CPMS performance evaluation or CEMS performance specification (e.g., PS 2, 12A, or 12B) acceptance criteria. The performance test period is complete at the end of the 30th consecutive operating day. See § 63.1341 for definition of operating day and § 63.1348(b)(1) for the CEMS operating requirements. The source has the option of performing the compliance test earlier than the compliance date if desired.

- (1) *PM Compliance.* If you are subject to limitations on PM emissions under § 63.1343(b), you must demonstrate compliance with the PM emissions standards by using the test methods and procedures in § 63.1349(b)(1).
- (2) *Opacity Compliance.* If you are subject to the limitations on opacity under § 63.1345, you must demonstrate compliance with the opacity emissions standards by using the performance test methods and procedures in § 63.1349(b)(2). Use the maximum 6-minute average opacity exhibited during the performance test period to determine whether the affected source is in compliance with the standard.
- (3) *D/F compliance.*
- (i) If you are subject to limitations on D/F emissions under § 63.1343(b), you must demonstrate initial compliance with the D/F emissions standards by using the performance test methods and procedures in § 63.1349(b)(3). The owner or operator of a kiln with an in-line raw mill must demonstrate initial compliance by conducting separate performance tests while the raw mill is operating and the raw mill is not operating. Determine the D/F TEQ concentration for each run and calculate the arithmetic average of the TEQ concentrations measured for the three

runs to determine continuous compliance.

- (ii) If you are subject to a D/F emissions limitation under § 63.1343(b), you must demonstrate compliance with the temperature operating limits specified in § 63.1346 by using the performance test methods and procedures in § 63.1349(b)(3)(ii) through (b)(3)(iv). Use the arithmetic average of the temperatures measured during the three runs to determine the applicable temperature limit.
  - (iii) If activated carbon injection is used and you are subject to a D/F emissions limitation under § 63.1343(b), you must demonstrate compliance with the activated carbon injection rate operating limits specified in § 63.1346 by using the performance test methods and procedures in § 63.1349(b)(3)(v).
  - (iv) If activated carbon injection is used, you must also develop a carrier gas parameter (either the carrier gas flow rate or the carrier gas pressure drop) during the initial performance test and updated during any subsequent performance test conducted under § 63.1349(b)(3) that meets the requirements of § 63.1349(b)(3)(vi). Compliance is demonstrated if the system is maintained within  $\pm 5$  percent accuracy during the performance test determined in accordance with the procedures and criteria submitted for review in your monitoring plan required in § 63.1350(p).
- (4)
- (i) *THC Compliance.* If you are subject to limitations on THC emissions under § 63.1343(b), you must demonstrate compliance with the THC emissions standards by using the performance test methods and procedures in § 63.1349(b)(4)(i). You must use the average THC concentration obtained during the first 30 kiln operating days after the compliance date of this rule to determine initial compliance.
  - (ii) *Total Organic HAP Emissions Tests.* If you elect to demonstrate compliance with the total organic HAP emissions limit under § 63.1343(b) in lieu of the THC emissions limit, you must demonstrate compliance with the total organic HAP emissions standards by using the performance test methods and procedures in § 63.1349(b)(7).
  - (iii) If you are demonstrating initial compliance, you must conduct the separate performance tests as specified in § 63.1349(b)(7) while the raw mill of the inline kiln/raw mill is operating and while the raw mill of the inline kiln/raw mill is not operating.
  - (iv) The time weighted average total organic HAP concentration measured during the separate initial performance test specified by § 63.1349(b)(7) must be used to determine initial compliance.
  - (v) The time weighted average THC concentration measured during the initial performance test specified by § 63.1349(b)(4) must be used to determine the site-specific THC limit. Using the fraction of time the inline kiln/raw mill is on and the



fraction of time that the inline kiln/raw mill is off, calculate this limit as a time weighted average of the THC levels measured during raw mill on and raw mill off testing using one of the two approaches in § 63.1349(b)(7)(vii) or (viii) depending on the level of organic HAP measured during the compliance test.

- (5) *Mercury Compliance.* If you are subject to limitations on mercury emissions in § 63.1343(b), you must demonstrate compliance with the mercury standards by using the performance test methods and procedures in § 63.1349(b)(5). You must demonstrate compliance by operating a mercury CEMS or a sorbent trap based CEMS. Compliance with the mercury emissions standard must be determined based on the first 30 operating days you operate a mercury CEMS or sorbent trap monitoring system after the compliance date of this rule.
- (i) In calculating a 30 operating day emissions value using an integrating sorbent trap CEMS, assign the average Hg emissions concentration determined for an integrating period (e.g., 7 day sorbent trap monitoring system sample) to each relevant hour of the kiln operating days spanned by each integrated sample. Calculate the 30 kiln operating day emissions rate value using the assigned hourly Hg emissions concentrations and the respective flow and production rate values collected during the 30 kiln operating day performance test period. Depending on the duration of each integrated sampling period, you may not be able to calculate the 30 kiln operating day emissions value until several days after the end of the 30 kiln operating day performance test period.
- (ii) For example, a sorbent trap monitoring system producing an integrated 7-day sample will provide Hg concentration data for each hour of the first 28 kiln operating days (i.e., four values spanning 7 days each) of a 30 operating day period. The Hg concentration values for the hours of the last 2 days of the 30 operating day period will not be available for calculating the emissions for the performance test period until at least five days after the end of the subject period.
- (6) *HCl Compliance.* If you are subject to limitations on HCl emissions under § 63.1343(b), you must demonstrate initial compliance with the HCl standards by using the performance test methods and procedures in § 63.1349(b)(6).
- (i) For an affected source that is equipped with a wet scrubber, tray tower or dry scrubber, you may demonstrate initial compliance by conducting a performance test as specified in § 63.1349(b)(6)(i). You must determine the HCl concentration for each run and calculate the arithmetic average of the concentrations measured for the three runs to determine compliance. You must also establish appropriate site-specific operational parameter limits.
- (ii) For an affected source that is not equipped with a wet scrubber, tray tower or dry scrubber, you must demonstrate initial compliance by operating a CEMS as specified in § 63.1349(b)(6)(ii). You must use the average of the hourly HCl values obtained during the first 30 kiln operating days that occur after the compliance date of this rule to determine initial compliance.

- (7) *Commingled Exhaust Requirements.* If the coal mill exhaust is commingled with kiln exhaust in a single stack, you may demonstrate compliance with the kiln emission limits by either:
- (i) Performing required emissions monitoring and testing on the commingled coal mill and kiln exhaust, or
  - (ii) Perform required emission monitoring and testing of the kiln exhaust prior to the reintroduction of the coal mill exhaust, and also testing the kiln exhaust diverted to the coal mill. All emissions must be added together for all emission points, and must not exceed the limit per each pollutant as listed in § 63.1343(b).
- (b) *Continuous Monitoring Requirements.* You must demonstrate compliance with the emissions standards and operating limits by using the performance test methods and procedures in §§ 63.1350 and 63.8 for each affected source.
- (1) *General Requirements.*
- (i) You must monitor and collect data according to § 63.1350 and the site-specific monitoring plan required by § 63.1350(p).
  - (ii) Except for periods of startup and shutdown, monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), you must operate the monitoring system and collect data at all required intervals at all times the affected source is operating.
  - (iii) You may not use data recorded during monitoring system startup, shutdown or malfunctions or repairs associated with monitoring system malfunctions in calculations used to report emissions or operating levels. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system.
  - (iv) *Clinker Production.* If you are subject to limitations on mercury emissions (lb/MM tons of clinker) under § 63.1343(b), you must determine the hourly production rate of clinker according to the requirements of § 63.1350(d).
- (2) *PM Compliance.* If you are subject to limitations on PM emissions under § 63.1343(b), you must use the monitoring methods and procedures in § 63.1350(b) and (d).
- (3) *Opacity Compliance.* If you are subject to the limitations on opacity under § 63.1345, you must demonstrate compliance using the monitoring methods and procedures in §

63.1350(f) based on the maximum 6-minute average opacity exhibited during the performance test period. You must initiate corrective actions within one hour of detecting visible emissions above the applicable limit.

- (i) *COMS*. If you install a COMS in lieu of conducting the daily visible emissions testing, you must demonstrate compliance using a COMS such that it is installed, operated, and maintained in accordance with the requirements of § 63.1350(f)(4)(i).
  - (ii) *Bag Leak Detection System (BLDS)*. If you install a BLDS on a raw mill or finish mill in lieu of conducting the daily visible emissions testing, you must demonstrate compliance using a BLDS that is installed, operated, and maintained in accordance with the requirements of § 63.1350(f)(4)(ii).
- (4) *D/F Compliance*. If you are subject to a D/F emissions limitation under § 63.1343(b), you must demonstrate compliance using a continuous monitoring system (CMS) that is installed, operated and maintained to record the temperature of specified gas streams in accordance with the requirements of § 63.1350(g).
- (5) *Activated Carbon Injection Compliance*.
- (i) If you use activated carbon injection to comply with the D/F emissions limitation under § 63.1343(b), you must demonstrate compliance using a CMS that is installed, operated, and maintained to record the rate of activated carbon injection in accordance with the requirements § 63.1350(h)(1).
  - (ii) If you use activated carbon injection to comply with the D/F emissions limitation under § 63.1343(b), you must demonstrate compliance using a CMS that is installed, operated and maintained to record the activated carbon injection system gas parameter in accordance with the requirements of § 63.1350(h)(2).
- (6) *THC Compliance*.
- (i) If you are subject to limitations on THC emissions under § 63.1343(b), you must demonstrate compliance using the monitoring methods and procedures in § 63.1350(i) and (j).
  - (ii) THC must be measured either upstream of the coal mill or in the coal mill stack.
- (7) *Mercury Compliance*.
- (i) If you are subject to limitations on mercury emissions in § 63.1343(b), you must demonstrate compliance using the monitoring methods and procedures in § 63.1350(k). If you use an integrated sorbent trap monitoring system to determine ongoing compliance, use the procedures described in § 63.1348(a)(5) to assign hourly mercury concentration values and to calculate rolling 30 operating day emissions rates. Since you assign the mercury concentration measured with the sorbent trap to each relevant hour respectively for each operating day of the

integrated period, you may schedule the sorbent trap change periods to any time of the day (i.e., the sorbent trap replacement need not be scheduled at 12:00 midnight nor must the sorbent trap replacements occur only at integral 24-hour intervals).

- (ii) Mercury must be measured either upstream of the coal mill or in the coal mill stack.
- (8) *HCl Compliance.* If you are subject to limitations on HCl emissions under § 63.1343(b), you must demonstrate compliance using the performance test methods and procedures in § 63.1349(b)(6).
- (i) For an affected source that is not equipped with a wet scrubber, tray tower or a dry sorbent injection system, you must demonstrate compliance using the monitoring methods and procedures in § 63.1350(l)(1).
  - (ii) For an affected source that is equipped with a wet scrubber, tray tower or a dry sorbent injection system, you may demonstrate compliance using the monitoring methods and procedures in § 63.1350(l)(2).
  - (iii) HCl may be measured either upstream of the coal mill or in the coal mill stack.
  - (iv) As an alternative to paragraph (b)(8)(ii) of this section, you may use an SO<sub>2</sub> CEMS to establish an SO<sub>2</sub> operating level during your initial and repeat HCl performance tests and monitor the SO<sub>2</sub> level using the procedures in § 63.1350(l)(3).
- (9) *Startup and Shutdown Compliance.* All dry sorbent and activated carbon systems that control hazardous air pollutants must be turned on and operating at the time the gas stream at the inlet to the baghouse or ESP reaches 300 degrees Fahrenheit (five minute average) during startup. Temperature of the gas stream is to be measured at the inlet of the baghouse or ESP every minute. Such injection systems can be turned off during shutdown. Particulate control and all remaining devices that control hazardous air pollutants should be operational during startup and shutdown.
- (c) *Changes in operations.*
- (1) If you plan to undertake a change in operations that may adversely affect compliance with an applicable standard, operating limit, or parametric monitoring value under this subpart, the source must conduct a performance test as specified in § 63.1349(b).
  - (2) In preparation for and while conducting a performance test required in § 63.1349(b), you may operate under the planned operational change conditions for a period not to exceed 360 hours, provided that the conditions in (c)(2)(i) through (c)(2)(iv) of this section are met. You must submit temperature and other monitoring data that are recorded during the pretest operations.
    - (i) You must provide the Administrator written notice at least 60 days prior to undertaking an operational change that may adversely affect compliance with an

applicable standard under this subpart for any source, or as soon as practicable where 60 days advance notice is not feasible. Notice provided under this paragraph must include a description of the planned change, the emissions standards that may be affected by the change, and a schedule for completion of the performance test required under paragraph (c)(1) of this section, including when the planned operational change period would begin.

- (ii) The performance test results must be documented in a test report according to § 63.1349(a).
  - (iii) A test plan must be made available to the Administrator prior to performance testing, if requested.
  - (iv) The performance test must be completed within 360 hours after the planned operational change period begins.
- (d) *General duty to minimize emissions.* At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[75 FR 55055, Sept. 9, 2010, as amended at 78 FR 10040, Feb. 12, 2013; 80 FR 44781, July 27, 2015; 83 FR 35132, July 25, 2018]

## **MONITORING AND COMPLIANCE PROVISIONS**

### **§ 63.1349 Performance testing requirements.**

- (a) You must document performance test results in complete test reports that contain the information required by paragraphs (a)(1) through (10) of this section, as well as all other relevant information. As described in § 63.7(c)(2)(i), you must make available to the Administrator prior to testing, if requested, the site-specific test plan to be followed during performance testing. For purposes of determining exhaust gas flow rate to the atmosphere from an alkali bypass stack or a coal mill stack, you must either install, operate, calibrate and maintain an instrument for continuously measuring and recording the exhaust gas flow rate according to the requirements in paragraphs § 63.1350(n)(1) through (10) of this subpart or use the maximum design exhaust gas flow rate. For purposes of determining the combined emissions from kilns equipped with an alkali bypass or that exhaust kiln gases to a coal mill that exhausts through a separate stack, instead of installing a CEMS on the alkali bypass stack or coal mill stack, you may use the results of the initial and subsequent performance test to demonstrate compliance with the relevant emissions limit.

- (1) A brief description of the process and the air pollution control system;
- (2) Sampling location description(s);
- (3) A description of sampling and analytical procedures and any modifications to standard procedures;
- (4) Test results;
- (5) Quality assurance procedures and results;
- (6) Records of operating conditions during the performance test, preparation of standards, and calibration procedures;
- (7) Raw data sheets for field sampling and field and laboratory analyses;
- (8) Documentation of calculations;
- (9) All data recorded and used to establish parameters for monitoring; and
- (10) Any other information required by the performance test method.

(b)

- (1) *PM emissions tests.* The owner or operator of a kiln and clinker cooler subject to limitations on PM emissions shall demonstrate initial compliance by conducting a performance test using Method 5 or Method 5I at appendix A-3 to part 60 of this chapter. You must also monitor continuous performance through use of a PM continuous parametric monitoring system (PM CPMS).
  - (i) For your PM CPMS, you will establish a site-specific operating limit. If your PM performance test demonstrates your PM emission levels to be below 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test, the milliamp or digital equivalent of zero output from your PM CPMS, and the average PM result of your compliance test to establish your operating limit. If your PM compliance test demonstrates your PM emission levels to be at or above 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test to establish your operating limit. You will use the PM CPMS to demonstrate continuous compliance with your operating limit. You must repeat the performance test annually and reassess and adjust the site-specific operating limit in accordance with the results of the performance test.
    - (A) Your PM CPMS must provide a 4-20 milliamp or digital signal output and the establishment of its relationship to manual reference method measurements must be determined in units of milliamps or the monitors digital equivalent.

- (B) Your PM CPMS operating range must be capable of reading PM concentrations from zero to a level equivalent to three times your allowable emission limit. If your PM CPMS is an auto-ranging instrument capable of multiple scales, the primary range of the instrument must be capable of reading PM concentration from zero to a level equivalent to three times your allowable emission limit.
  - (C) During the initial performance test or any such subsequent performance test that demonstrates compliance with the PM limit, record and average all milliamp or digital output values from the PM CPMS for the periods corresponding to the compliance test runs (e.g., average all your PM CPMS output values for three corresponding Method 5I test runs).
- (ii) Determine your operating limit as specified in paragraphs (b)(1)(iii) through (iv) of this section. If your PM performance test demonstrates your PM emission levels to be below 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test, the milliamp or digital equivalent of zero output from your PM CPMS, and the average PM result of your compliance test to establish your operating limit. If your PM compliance test demonstrates your PM emission levels to be at or above 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test to establish your operating limit. You must verify an existing or establish a new operating limit after each repeated performance test. You must repeat the performance test at least annually and reassess and adjust the site-specific operating limit in accordance with the results of the performance test.
- (iii) If the average of your three Method 5 or 5I compliance test runs is below 75 percent of your PM emission limit, you must calculate an operating limit by establishing a relationship of PM CPMS signal to PM concentration using the PM CPMS instrument zero, the average PM CPMS values corresponding to the three compliance test runs, and the average PM concentration from the Method 5 or 5I compliance test with the procedures in (b)(1)(iii)(A) through (D) of this section.
- (A) Determine your PM CPMS instrument zero output with one of the following procedures:
    - (1) Zero point data for in-situ instruments should be obtained by removing the instrument from the stack and monitoring ambient air on a test bench.
    - (2) Zero point data for extractive instruments should be obtained by removing the extractive probe from the stack and drawing in clean ambient air.
    - (3) The zero point may also be established by performing manual reference method measurements when the flue gas is free of PM

emissions or contains very low PM concentrations (*e.g.*, when your process is not operating, but the fans are operating or your source is combusting only natural gas) and plotting these with the compliance data to find the zero intercept.

- (4) If none of the steps in paragraphs (b)(1)(iii)(A)(I) through (3) of this section are possible, you must use a zero output value provided by the manufacturer.
- (B) Determine your PM CPMS instrument average in milliamps or digital equivalent, and the average of your corresponding three PM compliance test runs, using equation 3.

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n X_i, \bar{y} = \frac{1}{n} \sum_{i=1}^n Y_i \quad (\text{Eq. 3})$$

Where:

$X_i$  = The PM CPMS data points for the three runs constituting the performance test.  
 $Y_i$  = The PM concentration value for the three runs constituting the performance test.  
 $n$  = The number of data points.

- (C) With your instrument zero expressed in milliamps or a digital value, your three run average PM CPMS milliamp or digital signal value, and your three run PM compliance test average, determine a relationship of lb/ton-clinker per milliamp or digital signal value with Equation 4.

$$R = \frac{Y_1}{(X_1 - z)} \quad (\text{Eq. 4})$$

Where:

$R$  = The relative lb/ton-clinker per milliamp or digital equivalent for your PM CPMS.  $Y_1$  = The three run average lb/ton-clinker PM concentration.  
 $X_1$  = The three run average milliamp or digital equivalent output from your PM CPMS.  
 $z$  = The milliamp or digital equivalent of your instrument zero determined from (b)(1)(iii)(A).



- (D) Determine your source specific 30-day rolling average operating limit using the lb/ton-clinker per milliamp or digital signal value from Equation 4 in Equation 5, below. This sets your operating limit at the PM CPMS output value corresponding to 75 percent of your emission limit.

$$O_1 = z + \frac{0.75(L)}{R} \quad (\text{Eq. 5})$$

Where:

$O_1$  = The operating limit for your PM CPMS on a 30-day rolling average, in milliamps or the digital equivalent.  $L$  = Your source emission limit expressed in lb/ton clinker.

$z$  = Your instrument zero in milliamps, or digital equivalent, determined from (b)(1)(iii)(A).

$R$  = The relative lb/ton-clinker per milliamp, or digital equivalent, for your PM CPMS, from Equation 4.

- (iv) If the average of your three PM compliance test runs is at or above 75 percent of your PM emission limit you must determine your operating limit by averaging the PM CPMS milliamp or digital equivalent output corresponding to your three PM performance test runs that demonstrate compliance with the emission limit using Equation 6.

$$O_h = \frac{1}{n} \sum_{i=1}^n X_i \quad (\text{Eq. 6})$$

Where:

$X_i$  = The PM CPMS data points for all runs  $i$ .

$n$  = The number of data points.

$O_h$  = Your site specific operating limit, in milliamps or the digital equivalent.

- (v) To determine continuous operating compliance, you must record the PM CPMS output data for all periods when the process is operating, and use all the PM CPMS data for calculations when the source is not out-of-control. You must demonstrate continuous compliance by using all quality-assured hourly average data collected by the PM CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (milliamps or the digital equivalent) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day. Use Equation 7 to determine the 30 kiln operating day average.

$$30 \text{ kiln operating days} = \frac{\sum_{i=1}^n Hpvi}{n} \quad (\text{Eq. 7})$$

Where:

*Hpvi* = The hourly parameter value for hour *i*.

*n* = The number of valid hourly parameter values collected over 30 kiln operating days.

- (vi) For each performance test, conduct at least three separate test runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur. Conduct each test run to collect a minimum sample volume of 2 dscm for determining compliance with a new source limit and 1 dscm for determining compliance with an existing source limit. Calculate the time weighted average of the results from three consecutive runs, including applicable sources as required by paragraph (b)(1)(viii) of this section, to determine compliance. You need not determine the particulate matter collected in the impingers “back half” of the Method 5 or Method 5I particulate sampling train to demonstrate compliance with the PM standards of this subpart. This shall not preclude the permitting authority from requiring a determination of the “back half” for other purposes. For kilns with inline raw mills, testing must be conducted while the raw mill is on and while the raw mill is off. If the exhaust streams of a kiln with an inline raw mill and a clinker cooler are comingled, then the comingled exhaust stream must be tested with the raw mill on and the raw mill off.
- (vii) For PM performance test reports used to set a PM CPMS operating limit, the electronic submission of the test report must also include the make and model of the PM CPMS instrument, serial number of the instrument, analytical principle of the instrument (*e.g.* beta attenuation), span of the instruments primary analytical range, milliamp value or digital equivalent to the instrument zero output, technique by which this zero value was determined, and the average milliamp or digital equivalent signals corresponding to each PM compliance test run.
- (viii) When there is an alkali bypass and/or an inline coal mill with a separate stack associated with a kiln, the main exhaust and alkali bypass and/or inline coal mill must be tested simultaneously and the combined emission rate of PM from the kiln and alkali bypass and/or inline coal mill must be computed for each run using Equation 8 of this section.

$$E_{Cm} = \frac{E_K + E_B + E_C}{P} \quad (\text{Eq. 8})$$

Where:

$E_{Cm}$  = Combined hourly emission rate of PM from the kiln and bypass stack and/or inline coal mill, lb/ton of kiln clinker production.

$E_K$  = Hourly emissions of PM emissions from the kiln,

lb.  $E_B$  = Hourly PM emissions from the alkali bypass stack, lb.

$E_C$  = Hourly PM emissions from the inline coal mill stack, lb.

$P$  = Hourly clinker production, tons.

- (ix) The owner or operator of a kiln with an in-line raw mill and subject to limitations on PM emissions shall demonstrate initial compliance by conducting separate performance tests while the raw mill is under normal operating conditions and while the raw mill is not operating, and calculate the time weighted average emissions. The operating limit will then be determined using 63.1349(b)(1)(i) of this section.
- (2) *Opacity tests.* If you are subject to limitations on opacity under this subpart, you must conduct opacity tests in accordance with Method 9 of appendix A-4 to part 60 of this chapter. The duration of the Method 9 performance test must be 3 hours (30 6-minute averages), except that the duration of the Method 9 performance test may be reduced to 1 hour if the conditions of paragraphs (b)(2)(i) and (ii) of this section apply. For batch processes that are not run for 3-hour periods or longer, compile observations totaling 3 hours when the unit is operating.
  - (i) There are no individual readings greater than 10 percent opacity;
  - (ii) There are no more than three readings of 10 percent for the first 1-hour period.
- (3) *D/F Emissions Tests.* If you are subject to limitations on D/F emissions under this subpart, you must conduct a performance test using Method 23 of appendix A-7 to part 60 of this chapter. If your kiln or in-line kiln/raw mill is equipped with an alkali bypass, you must conduct simultaneous performance tests of the kiln or in-line kiln/raw mill exhaust and the alkali bypass. You may conduct a performance test of the alkali bypass exhaust when the raw mill of the in-line kiln/raw mill is operating or not operating.
  - (i) Each performance test must consist of three separate runs conducted under

representative conditions. The duration of each run must be at least 3 hours, and the sample volume for each run must be at least 2.5 dscm (90 dscf).

- (ii) The temperature at the inlet to the kiln or in-line kiln/raw mill PMCD, and, where applicable, the temperature at the inlet to the alkali bypass PMCD must be continuously recorded during the period of the Method 23 test, and the continuous temperature record(s) must be included in the performance test report.
  - (iii) Average temperatures must be calculated for each run of the performance test.
  - (iv) The run average temperature must be calculated for each run, and the average of the run average temperatures must be determined and included in the performance test report and will determine the applicable temperature limit in accordance with § 63.1346(b).
  - (v)
    - (A) If sorbent injection is used for D/F control, you must record the rate of sorbent injection to the kiln exhaust, and where applicable, the rate of sorbent injection to the alkali bypass exhaust, continuously during the period of the Method 23 test in accordance with the conditions in § 63.1350(m)(9), and include the continuous injection rate record(s) in the performance test report. Determine the sorbent injection rate parameters in accordance with paragraph (b)(3)(vi) of this section.
    - (B) Include the brand and type of sorbent used during the performance test in the performance test report.
    - (C) Maintain a continuous record of either the carrier gas flow rate or the carrier gas pressure drop for the duration of the performance test. If the carrier gas flow rate is used, determine, record, and maintain a record of the accuracy of the carrier gas flow rate monitoring system according to the procedures in appendix A to part 75 of this chapter. If the carrier gas pressure drop is used, determine, record, and maintain a record of the accuracy of the carrier gas pressure drop monitoring system according to the procedures in § 63.1350(m)(6).
  - (vi) Calculate the run average sorbent injection rate for each run and determine and include the average of the run average injection rates in the performance test report and determine the applicable injection rate limit in accordance with § 63.1346(c)(1).
- (4) *THC emissions test.*
- (i) If you are subject to limitations on THC emissions, you must operate a CEMS in accordance with the requirements in § 63.1350(i). For the purposes of conducting the accuracy and quality assurance evaluations for CEMS, the THC span value (as

propane) is 50 to 60 ppmvw and the reference method (RM) is Method 25A of appendix A to part 60 of this chapter.

- (ii) Use the THC CEMS to conduct the initial compliance test for the first 30 kiln operating days of kiln operation after the compliance date of the rule. See § 63.1348(a).
- (iii) If kiln gases are diverted through an alkali bypass or to a coal mill and exhausted through a separate stack, you must calculate a kiln-specific THC limit using Equation 9:

$$C_{ks} = \frac{(MACT\ Limit \times (Q_{ab} + Q_{cm} + Q_{ks})) - (Q_{ab} \times C_{ab}) - (Q_{cm} \times C_{cm})}{Q_{ks}} \quad (Eq. 9)$$

*Where:*

- C<sub>ks</sub>* = Kiln stack concentration (ppmvd).
- Q<sub>ab</sub>* = Alkali bypass flow rate (volume/hr)
- C<sub>ab</sub>* = Alkali bypass concentration (ppmvd)
- Q<sub>cm</sub>* = Coal mill flow rate (volume/hr).
- C<sub>cm</sub>* = Coal mill concentration (ppmvd).
- Q<sub>ks</sub>* = Kiln stack flow rate (volume/hr).

- (iv) THC must be measured either upstream of the coal mill or the coal mill stack.
  - (v) Instead of conducting the performance test specified in paragraph (b)(4) of this section, you may conduct a performance test to determine emissions of total organic HAP by following the procedures in paragraph (b)(7) of this section.
- (5) *Mercury Emissions Tests.* If you are subject to limitations on mercury emissions, you must operate a mercury CEMS or a sorbent trap monitoring system in accordance with the requirements of § 63.1350(k). The initial compliance test must be based on the first 30 kiln operating days in which the affected source operates using a mercury CEMS or a sorbent trap monitoring system after the compliance date of the rule. See § 63.1348(a).
- (i) If you are using a mercury CEMS or a sorbent trap monitoring system, you must install, operate, calibrate, and maintain an instrument for continuously measuring and recording the exhaust gas flow rate to the atmosphere according to the requirements in § 63.1350(k)(5).
  - (ii) Calculate the emission rate using Equation 10 of this section:

$$E_{30D} = k \frac{\sum_{i=1}^n C_i Q_i}{P} \quad \text{Eq. 10.1}$$

Where:

$E_{30D}$  = 30-day rolling emission rate of mercury, lb/MM tons clinker.  $C_i$  = Concentration of mercury for operating hour  $i$ ,  $\mu\text{g}/\text{scm}$ .

$Q_i$  = Volumetric flow rate of effluent gas for operating hour  $i$ , where  $C_i$  and  $Q_i$  are on the same basis (either wet or dry),  $\text{scm}/\text{hr}$ .

$k$  = Conversion factor, 1 lb/454,000,000  $\mu\text{g}$ .

$n$  = Number of kiln operating hours in the previous 30 kiln operating day period where both  $C$  and  $Q_i$  qualified data are available.

$P$  = Total runs from the previous 30 days of clinker production during the same time period as the mercury emissions measured, million tons.

- (6) *HCl emissions tests.* For a source subject to limitations on HCl emissions you must conduct performance testing by one of the following methods:
- (i)
    - (A) If the source is equipped with a wet scrubber, tray tower or dry scrubber, you must conduct performance testing using Method 321 of appendix A to this part unless you have installed a CEMS that meets the requirements § 63.1350(l)(1). For kilns with inline raw mills, testing must be conducted for the raw mill on and raw mill off conditions.
    - (B) You must establish site specific parameter limits by using the CPMS required in § 63.1350(l)(1). For a wet scrubber or tray tower, measure and record the pressure drop across the scrubber and/or liquid flow rate and pH in intervals of no more than 15 minutes during the HCl test. Compute and record the 24-hour average pressure drop, pH, and average scrubber water flow rate for each sampling run in which the applicable emissions limit is met. For a dry scrubber, measure and record the sorbent injection rate in intervals of no more than 15 minutes during the HCl test. Compute and record the 24-hour average sorbent injection rate and average sorbent injection rate for each sampling run in which the applicable emissions limit is met.
  - (ii)

- (A) If the source is not controlled by a wet scrubber, tray tower or dry sorbent injection system, you must operate a CEMS in accordance with the requirements of § 63.1350(l)(1). See § 63.1348(a).
- (B) The initial compliance test must be based on the 30 kiln operating days that occur after the compliance date of this rule in which the affected source operates using an HCl CEMS. Hourly HCl concentration data must be obtained according to § 63.1350(l).
- (iii) As an alternative to paragraph (b)(6)(i)(B) of this section, you may choose to monitor SO<sub>2</sub> emissions using a CEMS in accordance with the requirements of § 63.1350(l)(3). You must establish an SO<sub>2</sub> operating limit equal to the average recorded during the HCl stack test where the HCl stack test run result demonstrates compliance with the emission limit. This operating limit will apply only for demonstrating HCl compliance.
- (iv) If kiln gases are diverted through an alkali bypass or to a coal mill and exhausted through a separate stack, you must calculate a kiln-specific HCl limit using Equation 11:

$$C_{ks} = \frac{(MACT\ Limit \times (Q_{ab} + Q_{cm} + Q_{ks})) - (Q_{ab} \times C_{ab}) - (Q_{cm} \times C_{cm})}{Q_{ks}} \quad (\text{Eq. 11})$$

Where:

- C<sub>ks</sub>* = Kiln stack concentration (ppmvd).
- Q<sub>ab</sub>* = Alkali bypass flow rate (volume/hr)
- C<sub>ab</sub>* = Alkali bypass concentration (ppmvd)
- Q<sub>cm</sub>* = Coal mill flow rate (volume/hr)
- C<sub>cm</sub>* = Coal mill concentration (ppmvd).
- Q<sub>ks</sub>* = Kiln stack flow rate (volume/hr).

- (v) As an alternative to paragraph (b)(6)(ii) of this section, the owner or operator may demonstrate initial compliance by conducting a performance test using Method 321 of appendix A to this part. You must also monitor continuous performance through use of an HCl CPMS according to paragraphs (b)(6)(v)(A) through (H) of this section. For kilns with inline raw mills, compliance testing and monitoring HCl to establish the site specific operating limit must be conducted during both raw mill on and raw mill off conditions.
- (A) For your HCl CPMS, you must establish a 30 kiln operating day site-specific operating limit. If your HCl performance test demonstrates your HCl emission levels to be less than 75 percent of your emission limit (2.25 ppmvd @7% O<sub>2</sub>), you must use the time weighted average HCl CPMS

indicated value recorded during the HCl compliance test (typically measured as ppmvw HCl at stack O<sub>2</sub> concentration, but a dry, oxygen corrected value would also suffice), your HCl instrument zero output value, and the time weighted average HCl result of your compliance test to establish your operating limit. If your HCl compliance test demonstrates your HCl emission levels to be at or above 75 percent of your emission limit (2.25 ppmvd @7% O<sub>2</sub>), you must use the time weighted average HCl CPMS indicated value recorded during the HCl compliance test as your operating limit. You must use the HCl CPMS indicated signal data to demonstrate continuous compliance with your operating limit.

- (1) Your HCl CPMS must provide a ppm HCl concentration output and the establishment of its relationship to manual reference method measurements must be determined in units of indicated ppm. The instrument signal may be in ppmvw or ppmvd and the signal may be a measurement of HCl at in-stack concentration or a corrected oxygen concentration. Once the relationship between the indicated output of the HCl CPMS and the reference method test results is established, the HCl CPMS instrument measurement basis (ppmvw or ppmvd, or oxygen correction basis) must not be altered. Likewise, any setting that impacts the HCl CPMS indicated HCl response must remain fixed after the site-specific operating limit is set.
  - (2) Your HCl CPMS operating range must be capable of reading HCl concentrations from zero to a level equivalent to 125 percent of the highest expected value during mill off operation. If your HCl CPMS is an auto- ranging instrument capable of multiple scales, the primary range of the instrument must be capable of reading an indicated HCl concentration from zero to 10 ppm.
  - (3) During the initial performance test of a kiln with an inline raw mill, or any such subsequent performance test that demonstrates compliance with the HCl limit, record and average the indicated ppm HCl output values from the HCl CPMS for each of the six periods corresponding to the compliance test runs (*e.g.*, average each of your HCl CPMS output values for six corresponding Method 321 test runs). With the average values of the six test runs, calculate the average of the three mill on test runs and the average of the three mill off test runs. Calculate the time weighted result using the average of the three mill on tests and the average of the three mill off tests and the previous annual ratio of mill on/mill off operations. Kilns without an inline raw mill will conduct three compliance tests and calculate the average monitor output values corresponding to these three test runs and not use time weighted values to determine their site specific operating limit.
- (B) Determine your operating limit as specified in paragraphs (b)(6)(i) or (iii) of



this section. If your HCl performance test demonstrates your HCl emission levels to be below 75 percent of your emission limit, kilns with inline raw mills will use the time weighted average indicated HCl ppm concentration CPMS value recorded during the HCl compliance test, the zero value output from your HCl CPMS, and the time weighted average HCl result of your compliance test to establish your operating limit. Kilns without inline raw mills will not use a time weighted average value to establish their operating limit. If your time weighted HCl compliance test demonstrates your HCl emission levels to be at or above 75 percent of your emission limit, you will use the time weighted HCl CPMS indicated ppm value recorded during the HCl compliance test to establish your operating limit. Kilns without inline raw mills will not use time weighted compliance test results to make this determination. You must verify an existing operating limit or establish a new operating limit for each kiln, after each repeated performance test.

- (C) If the average of your three Method 321 compliance test runs (for kilns without an inline raw mill) or the time weighted average of your six Method 321 compliance test runs (for an kiln with an inline raw mill) is below 75 percent of your HCl emission limit, you must calculate an operating limit by establishing a relationship of the average HCl CPMS indicated ppm to the Method 321 test average HCl concentration using the HCl CPMS instrument zero, the average HCl CPMS indicated values corresponding to the three (for kilns without inline raw mills) or time weighted HCl CPMS indicated values corresponding to the six (for kilns with inline raw mills) compliance test runs, and the average HCl concentration (for kilns without raw mills) or average time weighted HCl concentration (for kilns with inline raw mills) from the Method 321 compliance test with the procedures in paragraphs (b)(6)(v)(C)(1) through (5) of this section.
- (1) Determine your HCl CPMS instrument zero output with one of the following procedures:
    - (i) Zero point data for in situ instruments should be obtained by removing the instrument from the stack and monitoring ambient air on a test bench.
    - (ii) If neither of the steps in paragraphs (b)(6)(v)(C)(1)(i) through (ii) of this section are possible, you must use a zero output value provided by the manufacturer.
  - (2) If your facility does not have an inline raw mill you will determine your HCl CPMS indicated average in HCl ppm, and the average of your corresponding three HCl compliance test runs, using equation 11a.

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n X_i, \bar{y} = \frac{1}{n} \sum_{i=1}^n Y_i \quad (\text{Eq. 11a})$$

Where:

$X_i$  = The HCl CPMS data points for the three (or six) runs constituting the performance test;  
 $Y_i$  = The HCl concentration value for the three (or six) runs constituting the performance test; and  
 $n$  = The number of data points.

- (3) You will determine your HCl CPMS indicated average in HCl ppm, and the average of your corresponding HCl compliance test runs, using equation 11b. If you have an inline raw mill, use this same equation to calculate a second three-test average for your mill off CPMS and compliance test data.

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n X_i, \bar{y} = \frac{1}{n} \sum_{i=1}^n Y_i \quad (\text{Eq. 11b})$$

Where:

$X_i$  = The HCl CPMS data points for the three runs constituting the mill on OR mill off performance test;  
 $Y_i$  = The HCl concentration value for the three runs constituting the mill on OR mill off performance test; and  
 $n$  = The number of data points.

- (4) With your instrument zero expressed in ppm, your average HCl CPMS ppm value, and your HCl compliance test average, determine a relationship of performance test HCl (as ppmvd @7% O<sub>2</sub>) concentration per HCl CPMS indicated ppm with Equation 11c.

$$R = \frac{Y_1}{(X_1 - z)}$$

(Eq. 11c)

Where:

*R = The relative performance test concentration per indicated ppm for your HCl CPMS;*  
*Y<sub>1</sub> = The average HCl concentration as ppmvd @7% O<sub>2</sub> during the performance test;*  
*X<sub>1</sub> = The average indicated ppm output from your HCl CPMS; and*  
*z = The ppm of your instrument zero determined from paragraph (b)(6)(v)(C)(1) of this section.*

- (5) Determine your source specific 30 kiln operating day operating limit using HCl CPMS indicated value from Equation 11c in Equation 11d, below. This sets your operating limit at the HCl CPMS output value corresponding to 75 percent of your emission limit.

$$O_1 = z + \frac{0.75 (L)}{R}$$

(Eq. 11d)

Where:

*O<sub>1</sub> = The operating limit for your HCl CPMS on a 30 kiln operating day average, as indicated ppm;*  
*L = 3 ppmvd @7% O<sub>2</sub>;*  
*z = Your instrument zero, determined from paragraph (b)(6)(v)(C)(1) of this section ; and*  
*R = The relative performance test concentration per indicated ppm for your HCl CPMS, from Equation 11c.*

- (D) If the average of your HCl compliance test runs is at or above 75 percent of your HCl emission limit (2.25 ppmvd@7% O<sub>2</sub>) you must determine your operating limit by averaging the HCl CPMS output corresponding to your HCl performance test runs that demonstrate compliance with the emission limit using Equation 11e.

$$O_h = \frac{1}{n} \sum_{i=1}^n X_i \quad (\text{Eq. 11e})$$

Where:

$O_h$  = Your site specific HCl CPMS operating limit, in indicated ppm

$X_i$  = The HCl CPMS data points for all runs  $i$ .

$n$  = The number of data points.

- (E) To determine continuous compliance with the operating limit, you must record the HCl CPMS indicated output data for all periods when the process is operating and use all the HCl CPMS data for calculations when the source is not out of control. You must demonstrate continuous compliance with the operating limit by using all quality- assured hourly average data collected by the HCl CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (ppmvw) on a 30 kiln operating day rolling average basis, updated at the end of each new kiln operating day. Use Equation 11f to determine the 30 kiln operating day average.

$$30\text{kiln operating day parameter average} = \frac{\sum_{i=1}^n Hpv_i}{n} \quad (\text{Eq. 11f})$$

Where:

30 kiln operating day parameter average = The average indicated value for the CPMS parameter over the previous 30 days of kiln operation;

$Hpv_i$  = The hourly parameter value for hour  $i$ ; and

$n$  = The number of valid hourly parameter values collected over 30 kiln operating days.

- (F) If you exceed the 30 kiln operating day operating limit, you must evaluate the control system operation and re- set the operating limit.
- (G) The owner or operator of a kiln with an inline raw mill and subject to limitations on HCl emissions must demonstrate initial compliance by conducting separate performance tests while the raw mill is on and while the raw mill is off. Using the fraction of time the raw mill is on calculate your HCl CPMS limit as a weighted average of the HCl CPMS indicated values measured during raw mill on and raw mill off compliance testing

using Equation 11g.

$$R = (b * t) + (a * (1 - t)) \quad (\text{Eq. 11g})$$

*Where:*

*R = HCl CPMS operating limit;*

*b = Average indicated HCl CPMS value during mill on operations, ppm;*

*t = Fraction of operating time with mill on;*

*a = Average indicated HCl CPMS value during mill off operations ppm; and*

*(1-t) = Fraction of operating time with mill off.*

- (H) Paragraph (b)(6)(v) of this section expires on July 25, 2017 at which time the owner or operator must demonstrate compliance with paragraphs (b)(6)(i), (ii), or (iii).
- (7) *Total Organic HAP Emissions Tests.* Instead of conducting the performance test specified in paragraph (b)(4) of this section, you may conduct a performance test to determine emissions of total organic HAP by following the procedures in paragraphs (b)(7)(i) through (v) of this section.
- (i) Use Method 320 of appendix A to this part, Method 18 of Appendix A of part 60, ASTM D6348-03 or a combination to determine emissions of total organic HAP. Each performance test must consist of three separate runs under the conditions that exist when the affected source is operating at the representative performance conditions in accordance with § 63.7(e). Each run must be conducted for at least 1 hour.
- (ii) At the same time that you are conducting the performance test for total organic HAP, you must also determine a site-specific THC emissions limit by operating a THC CEMS in accordance with the requirements of § 63.1350(j). The duration of the performance test must be at least 3 hours and the average THC concentration (as calculated from the recorded output) during the 3-hour test must be calculated. You must establish your THC operating limit and determine compliance with it according to paragraphs (b)(7)(vii) and (viii) of this section. It is permissible to extend the testing time of the organic HAP performance test if you believe extended testing is required to adequately capture organic HAP and/or THC variability over time.
- (iii) If your source has an in-line kiln/raw mill you must use the fraction of time the raw mill is on and the fraction of time that the raw mill is off and calculate this limit as a weighted average of the THC levels measured during three raw mill on and three raw mill off tests.
- (iv) If your organic HAP emissions are below 75 percent of the organic HAP standard

and you determine your operating limit with paragraph (b)(7)(vii) of this section your THC CEMS must be calibrated and operated on a measurement scale no greater than 180 ppmvw, as carbon, or 60 ppmvw as propane.

- (v) If your kiln has an inline coal mill and/or an alkali bypass with separate stacks, you are required to measure and account for oHAP emissions from their separate stacks. You are required to measure oHAP at the coal mill inlet or outlet and you must also measure oHAP at the alkali bypass outlet. You must then calculate a flow weighted average oHAP concentration for all emission sources including the inline coal mill and the alkali bypass.
- (vi) Your THC CEMS measurement scale must be capable of reading THC concentrations from zero to a level equivalent to two times your highest THC emissions average determined during your performance test, including mill on or mill off operation.

Note: This may require the use of a dual range instrument to meet this requirement and paragraph (b)(7)(iv) of this section.

- (vii) Determine your operating limit as specified in paragraphs (b)(7)(viii) and (ix) of this section. If your organic HAP performance test demonstrates your average organic HAP emission levels are below 75 percent of your emission limit (9 ppmv) you will use the average THC value recorded during the organic HAP performance test, and the average total organic HAP result of your performance test to establish your operating limit. If your organic HAP compliance test results demonstrate that your average organic HAP emission levels are at or above 75 percent of your emission limit, your operating limit is established as the average THC value recorded during the organic HAP performance test. You must establish a new operating limit after each performance test. You must repeat the performance test no later than 30 months following your last performance test and reassess and adjust the site- specific operating limit in accordance with the results of the performance test.
- (viii) If the average organic HAP results for your three Method 18 and/or Method 320 performance test runs are below 75 percent of your organic HAP emission limit, you must calculate an operating limit by establishing a relationship of THC CEMS signal to the organic HAP concentration using the average THC CEMS value corresponding to the three organic HAP compliance test runs and the average organic HAP total concentration from the Method 18 and/or Method 320 performance test runs with the procedures in (b)(7)(viii)(A) and (B) of this section.
  - (A) Determine the THC CEMS average value in ppmvw, and the average of your corresponding three total organic HAP compliance test runs, using Equation 12.

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n X_i, \bar{y} = \frac{1}{n} \sum_{i=1}^n Y_i \quad (\text{Eq. 12})$$

Where:

$\bar{x}$  = The average THC CEMS value in ppmvw, as propane.

$X_i$  = The THC CEMS data points in ppmvw, as propane, for all three test runs.

$\bar{y}$  = The average organic HAP value in ppmvd, corrected to 7 percent oxygen.

$Y_i$  = The organic HAP concentrations in ppmvd, corrected to 7 percent oxygen, for all three test runs.

$n$  = The number of data points.

- (B) You must use your 3-run average THC CEMS value and your 3-run average organic HAP concentration from your Method 18 and/or Method 320 compliance tests to determine the operating limit. Use equation 13 to determine your operating limit in units of ppmvw THC, as propane.

$$T_l = \left(\frac{9}{\bar{y}}\right) * \bar{x} \quad (\text{Eq. 13})$$

Where:

$T_l$  = The 30-day operating limit for your THC CEMS, ppmvw, as propane.

$\bar{y}$  = The average organic HAP concentration from Eq. 12, ppmvd, corrected to 7 percent oxygen.

$\bar{x}$  = The average THC CEMS concentration from Eq. 12, ppmvw, as propane.

9 = 75 percent of the organic HAP emissions limit (12 ppmvd, corrected to 7 percent oxygen)

- (ix) If the average of your three organic HAP performance test runs is at or above 75 percent of your organic HAP emission limit, you must determine your operating limit using Equation 14 by averaging the THC CEMS output values corresponding to your three organic HAP performance test runs that demonstrate compliance with the emission limit. If your new THC CEMS value is below your current operating limit, you may opt to retain your current operating limit, but you must still submit all performance test and THC CEMS data according to the reporting requirements in paragraph (d)(1) of this section.

$$T_h = \frac{1}{n} \sum_{i=1}^n X_i \quad (\text{Eq. 14})$$

Where:

- $X_i$  = The THC CEMS data points for all runs  $i$ .
- $n$  = The number of data points.
- $T_h$  = Your site specific operating limit, in ppmvw THC.

- (x) If your kiln has an inline kiln/raw mill, you must conduct separate performance tests while the raw mill is operating (“mill on”) and while the raw mill is not operating (“mill off”). Using the fraction of time the raw mill is on and the fraction of time that the raw mill is off, calculate this limit as a weighted average of the THC levels measured during raw mill on and raw mill off compliance testing with Equation 15.

$$R = (y * t) + (x * (1 - t)) \quad (\text{Eq. 15})$$

Where:

- $R$  = Operating limit as THC, ppmvw.
- $y$  = Average THC CEMS value during mill on operations, ppmvw.
- $t$  = Percentage of operating time with mill on.
- $x$  = Average THC CEMS value during mill off operations, ppmvw.
- $(1-t)$  = Percentage of operating time with mill off.

- (xi) To determine continuous compliance with the THC operating limit, you must record the THC CEMS output data for all periods when the process is operating and the THC CEMS is not out-of-control. You must demonstrate continuous compliance by using all quality-assured hourly average data collected by the THC CEMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (ppmvw) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day. Use Equation 16 to determine the 30 kiln operating day average.



$$30 \text{ kiln operating day} = \frac{\sum_{i=1}^n H_{pvi}}{n} \quad \text{Eq. 16}$$

Where:

$H_{pvi}$  = The hourly parameter value for hour  $i$ , ppmvw.

$n$  = The number of valid hourly parameter values collected over 30 kiln operating days.

- (xii) Use EPA Method 18 or Method 320 of appendix A to part 60 of this chapter to determine organic HAP emissions. For each performance test, conduct at least three separate runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur. If your source has an in-line kiln/raw mill you must conduct three separate test runs with the raw mill on, and three separate runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur with the mill off. Conduct each Method 18 test run to collect a minimum target sample equivalent to three times the method detection limit. Calculate the average of the results from three runs to determine compliance.
- (xiii) If the THC level exceeds by 10 percent or more your site-specific THC emissions limit, you must
  - (A) As soon as possible but no later than 30 days after the exceedance, conduct an inspection and take corrective action to return the THC CEMS measurements to within the established value; and
  - (B) Within 90 days of the exceedance or at the time of the 30 month compliance test, whichever comes first, conduct another performance test to determine compliance with the organic HAP limit and to verify or re-establish your site-specific THC emissions limit.
- (8) HCl Emissions Tests with SO<sub>2</sub> Monitoring. If you choose to monitor SO<sub>2</sub> emissions using a CEMS to demonstrate HCl compliance, follow the procedures in (b)(8)(i) through (ix) of this section and in accordance with the requirements of § 63.1350(l)(3). You must establish an SO<sub>2</sub> operating limit equal to the average recorded during the HCl stack test. This operating limit will apply only for demonstrating HCl compliance.
  - (i) Use Method 321 of appendix A to this part to determine emissions of HCl. Each performance test must consist of three separate runs under the conditions that exist when the affected source is operating at the representative performance conditions in accordance with § 63.7(e). Each run must be conducted for at least one hour.

- (ii) At the same time that you are conducting the performance test for HCl, you must also determine a site- specific SO<sub>2</sub> emissions limit by operating an SO<sub>2</sub> CEMS in accordance with the requirements of § 63.1350(l). The duration of the performance test must be three hours and the average SO<sub>2</sub> concentration (as calculated from the average output) during the 3-hour test must be calculated. You must establish your SO<sub>2</sub> operating limit and determine compliance with it according to paragraphs (b)(8)(vii) and (viii) of this section.
- (iii) If your source has an in-line kiln/raw mill you must use the fraction of time the raw mill is on and the fraction of time that the raw mill is off and calculate this limit as a weighted average of the SO<sub>2</sub> levels measured during raw mill on and raw mill off testing.
- (iv) Your SO<sub>2</sub> CEMS must be calibrated and operated according to the requirements of § 60.63(f).
- (v) Your SO<sub>2</sub> CEMS measurement scale must be capable of reading SO<sub>2</sub> concentrations consistent with the requirements of § 60.63(f), including mill on or mill off operation.
- (vi) If your kiln has an inline kiln/raw mill, you must conduct separate performance tests while the raw mill is operating (“mill on”) and while the raw mill is not operating (“mill off”). Using the fraction of time that the raw mill is on and the fraction of time that the raw mill is off, calculate this limit as a weighted average of the SO<sub>2</sub> levels measured during raw mill on and raw mill off compliance testing with Equation 17.

$$R = (y * t) + x * (1 - t) \quad (\text{Eq. 17})$$

*Where:*

*R = Operating limit as SO<sub>2</sub>, ppmv.*

*y = Average SO<sub>2</sub> CEMS value during mill on operations, ppmv.*

*t = Percentage of operating time with mill on, expressed as a decimal.*

*x = Average SO<sub>2</sub> CEMS value during mill off operations, ppmv.*

*1-t = Percentage of operating time with mill off, expressed as a decimal.*

- (vii) If the average of your three HCl compliance test runs is below 75 percent of your HCl emission limit, you may as a compliance alternative, calculate an operating limit by establishing a relationship of SO<sub>2</sub> CEMS signal to your HCl concentration corrected to 7 percent O<sub>2</sub> by using the SO<sub>2</sub> CEMS instrument zero, the average SO<sub>2</sub> CEMS values corresponding to the three compliance test runs, and the average HCl concentration from the HCl compliance test with the procedures in (b)(8)(vii)(A)

through (D) of this section.

- (A) Determine your SO<sub>2</sub> CEMS instrument zero output with one of the following procedures:
- (1) Zero point data for in-situ instruments should be obtained by removing the instrument from the stack and monitoring ambient air on a test bench.
  - (2) Zero point data for extractive instruments may be obtained by removing the extractive probe from the stack and drawing in clean ambient air.
  - (3) The zero point may also be established by performing probe-flood introduction of high purity nitrogen or certified zero air free of SO<sub>2</sub>.
  - (4) If none of the steps in paragraphs (b)(8)(vii)(A)(1) through (3) of this section are possible, you must use a zero output value provided by the manufacturer.
- (B) Determine your SO<sub>2</sub> CEMS instrument average ppmv, and the average of your corresponding three HCl compliance test runs, using Equation 18.

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n X_i, \bar{y} = \frac{1}{n} \sum_{i=1}^n Y_i \quad (\text{Eq. 18})$$

*Where:*

$\bar{x}$  = The average SO<sub>2</sub> CEMS value in ppmv.

$X_i$  = The SO<sub>2</sub> CEMS data points in ppmv for the three runs constituting the performance test.

$\bar{y}$  = The average HCl value in ppmvd, corrected to 7 percent oxygen.

$Y_i$  = The HCl emission concentration expressed as ppmvd, corrected to 7 percent oxygen for the three runs constituting the performance test.

$n$  = The number of data points.

- (C) With your instrument zero expressed in ppmv, your SO<sub>2</sub> CEMS three run average expressed in ppmv, and your 3-run HCl compliance test average in ppmvd, corrected to 7 percent O<sub>2</sub>, determine a relationship of ppmvd HCl corrected to 7 percent O<sub>2</sub> per ppmv SO<sub>2</sub> with Equation 19.

$$R = \frac{\bar{y}}{(\bar{x}-z)} \quad (\text{Eq. 19})$$

Where:

$R$  = The relative HCl ppmvd, corrected to 7 percent oxygen, per ppmv  $SO_2$  for your  $SO_2$  CEMS.

$\bar{y}$  = The average HCl concentration from Eq. 18 in ppmvd, corrected to 7 percent oxygen.

$\bar{x}$  = The average  $SO_2$  CEMS value from Eq. 18 in ppmv.

$z$  = The instrument zero output ppmv value.

- (D) Determine your source specific 30-day rolling average operating limit using ppm HCl corrected to 7 percent  $O_2$  per ppm  $SO_2$  value from Equation 19 in Equation 20, below. This sets your operating limit at the  $SO_2$  CEMS ppm value corresponding to 75 percent of your emission limit.

$$O_1 = z + \frac{0.75(L)}{R} \quad (\text{Eq. 20})$$

Where:

$O_1$  = The operating limit for your  $SO_2$  CEMS on a 30-day rolling average, in ppmv.

$L$  = Your source HCl emission limit expressed in ppmv corrected to 7 percent  $O_2$ .

$z$  = Your instrument zero in ppmv, determined from (1)(i).

$R$  = The relative oxygen corrected ppmv HCl per ppmv  $SO_2$ , for your  $SO_2$  CEMS, from Equation 19.

- (viii) To determine continuous compliance with the  $SO_2$  operating limit, you must record the  $SO_2$  CEMS output data for all periods when the process is operating and the  $SO_2$  CEMS is not out-of-control. You must demonstrate continuous compliance by using all quality-assured hourly average data collected by the  $SO_2$  CEMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (ppmvw) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day. Use Equation 21 to determine the 30 kiln operating day average.

$$30\text{ kiln operating day} = \frac{\sum_{i=1}^n Hpvi}{n} \quad (\text{Eq. 21})$$

Where:

$Hpvi$  = The hourly parameter value for hour  $i$ , ppmvw.

$n$  = The number of valid hourly parameter values collected over 30 kiln operating days.

- (ix) Use EPA Method 321 of appendix A to part 60 of this chapter to determine HCl emissions. For each performance test, conduct at least three separate runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur. If your source has an in-line kiln/raw mill you must conduct three separate test runs with the raw mill on, and three separate runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur with the mill off.
- (x) If the SO<sub>2</sub> level exceeds by 10 percent or more your site-specific SO<sub>2</sub> emissions limit, you must:
  - (A) As soon as possible but no later than 30 days after the exceedance, conduct an inspection and take corrective action to return the SO<sub>2</sub> CEMS measurements to within the established value;
  - (B) Within 90 days of the exceedance or at the time of the periodic compliance test, whichever comes first, conduct another performance test to determine compliance with the HCl limit and to verify or re-establish your site-specific SO<sub>2</sub> emissions limit.
- (c) *Performance test frequency.* Except as provided in § 63.1348(b), performance tests are required at regular intervals for affected sources that are subject to a dioxin, organic HAP or HCl emissions limit. Performance tests required every 30 months must be completed no more than 31 calendar months after the previous performance test except where that specific pollutant is monitored using CEMS; performance tests required every 12 months must be completed no more than 13 calendar months after the previous performance test.
- (d) [Reserved]
- (e) *Conditions of performance tests.* Conduct performance tests under such conditions as the Administrator specifies to the owner or operator based on representative performance of the affected source for the period being tested. Upon request, you must make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

FR 54729, Sept. 11, 2015; 81 FR 48359, July 25, 2016; 82 FR 28565, June 23, 2017; 82 FR 39673, Aug. 22, 2017; 83 FR 35132, July 25, 2018; 85 FR 63418, Oct. 7, 2020]

**§ 63.1350 Monitoring requirements.**

(a)

- (1) Following the compliance date, the owner or operator must demonstrate compliance with this subpart on a continuous basis by meeting the requirements of this section.
- (2) [Reserved]
- (3) For each existing unit that is equipped with a CMS, maintain the average emissions or the operating parameter values within the operating parameter limits established through performance tests.
- (4) Any instance where the owner or operator fails to comply with the continuous monitoring requirements of this section is a violation.

(b) *PM monitoring requirements.*

(1)

- (i) *PM CPMS.* You will use a PM CPMS to establish a site-specific operating limit corresponding to the results of the performance test demonstrating compliance with the PM limit. You will conduct your performance test using Method 5 or Method 5I at appendix A-3 to part 60 of this chapter. You will use the PM CPMS to demonstrate continuous compliance with this operating limit. You must repeat the performance test annually and reassess and adjust the site-specific operating limit in accordance with the results of the performance test using the procedures in § 63.1349(b)(1) (i) through (vi) of this subpart. You must also repeat the test if you change the analytical range of the instrument, or if you replace the instrument itself or any principle analytical component of the instrument that would alter the relationship of output signal to in-stack PM concentration.
- (ii) To determine continuous compliance, you must use the PM CPMS output data for all periods when the process is operating and the PM CPMS is not out-of-control. You must demonstrate continuous compliance by using all quality-assured hourly average data collected by the PM CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (milliamps) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day.
- (iii) For any exceedance of the 30 process operating day PM CPMS average value from the established operating parameter limit, you must:

- (A) Within 48 hours of the exceedance, visually inspect the APCD;
  - (B) If inspection of the APCD identifies the cause of the exceedance, take corrective action as soon as possible and return the PM CPMS measurement to within the established value; and
  - (C) Within 30 days of the exceedance or at the time of the annual compliance test, whichever comes first, conduct a PM emissions compliance test to determine compliance with the PM emissions limit and to verify or re-establish the PM CPMS operating limit within 45 days. You are not required to conduct additional testing for any exceedances that occur between the time of the original exceedance and the PM emissions compliance test required under this paragraph.
- (iv) PM CPMS exceedances leading to more than four required performance tests in a 12-month process operating period (rolling monthly) constitute a presumptive violation of this subpart.
- (2) [Reserved]
- (c) [Reserved]
- (d) *Clinker production monitoring requirements.* In order to determine clinker production, you must:
- (1) Determine hourly clinker production by one of two methods:
    - (i) Install, calibrate, maintain, and operate a permanent weigh scale system to measure and record weight rates in tons-mass per hour of the amount of clinker produced. The system of measuring hourly clinker production must be maintained within  $\pm 5$  percent accuracy, or
    - (ii) Install, calibrate, maintain, and operate a permanent weigh scale system to measure and record weight rates in tons-mass per hour of the amount of feed to the kiln. The system of measuring feed must be maintained within  $\pm 5$  percent accuracy. Calculate your hourly clinker production rate using a kiln-specific feed to clinker ratio based on reconciled clinker production determined for accounting purposes and recorded feed rates. Update this ratio monthly. Note that if this ratio changes at clinker reconciliation, you must use the new ratio going forward, but you do not have to retroactively change clinker production rates previously estimated.
    - (iii) [Reserved]
  - (2) Determine, record, and maintain a record of the accuracy of the system of measuring hourly clinker production (or feed mass flow if applicable) before initial use (for new sources) or by the effective compliance date of this rule (for existing sources). During each quarter of source operation, you must determine, record, and maintain a record of the

ongoing accuracy of the system of measuring hourly clinker production (or feed mass flow).

- (3) If you measure clinker production directly, record the daily clinker production rates; if you measure the kiln feed rates and calculate clinker production, record the hourly kiln feed and clinker production rates.
  - (4) Develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (p)(4) of this section.
- (e) [Reserved]
- (f) *Opacity monitoring requirements.* If you are subject to a limitation on opacity under § 63.1345, you must conduct required opacity monitoring in accordance with the provisions of paragraphs (f)(1)(i) through (vii) of this section and in accordance with your monitoring plan developed under § 63.1350(p). You must also develop an opacity monitoring plan in accordance with paragraphs (p)(1) through (4) and paragraph (o)(5), if applicable, of this section.
- (1)
- (i) You must conduct a monthly 10-minute visible emissions test of each affected source in accordance with Method 22 of appendix A-7 to part 60 of this chapter. The performance test must be conducted while the affected source is in operation.
  - (ii) If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of performance testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, you must resume performance testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
  - (iii) If no visible emissions are observed during the semi-annual test for any affected source, you may decrease the frequency of performance testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual performance test, the owner or operator must resume performance testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
  - (iv) If visible emissions are observed during any Method 22 performance test, of appendix A-7 to part 60 of this chapter, you must conduct 30 minutes of opacity observations, recorded at 15-second intervals, in accordance with Method 9 of appendix A-4 to part 60 of this chapter. The Method 9 performance test, of appendix A-4 to part 60 of this chapter, must begin within 1 hour of any observation of visible emissions.
  - (v) Any totally enclosed conveying system transfer point, regardless of the location of



the transfer point is not required to conduct Method 22 visible emissions monitoring under this paragraph. The enclosures for these transfer points must be operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan.

- (vi) If any partially enclosed or unenclosed conveying system transfer point is located in a building, you must conduct a Method 22 performance test, of appendix A-7 to part 60 of this chapter, according to the requirements of paragraphs (f)(1)(i) through (iv) of this section for each such conveying system transfer point located within the building, or for the building itself, according to paragraph (f)(1)(vii) of this section.
  - (vii) If visible emissions from a building are monitored, the requirements of paragraphs (f)(1)(i) through (f)(1)(iv) of this section apply to the monitoring of the building, and you must also test visible emissions from each side, roof, and vent of the building for at least 10 minutes.
- (2)
- (i) For a raw mill or finish mill, you must monitor opacity by conducting daily visible emissions observations of the mill sweep and air separator PM control devices (PMCD) of these affected sources in accordance with the procedures of Method 22 of appendix A-7 to part 60 of this chapter. The duration of the Method 22 performance test must be 6 minutes.
  - (ii) Within 24 hours of the end of the Method 22 performance test in which visible emissions were observed, the owner or operator must conduct a follow up Method 22 performance test of each stack from which visible emissions were observed during the previous Method 22 performance test.
  - (iii) If visible emissions are observed during the follow-up Method 22 performance test required by paragraph (f)(2)(ii) of this section from any stack from which visible emissions were observed during the previous Method 22 performance test required by paragraph (f)(2)(i) of the section, you must then conduct an opacity test of each stack from which emissions were observed during the follow up Method 22 performance test in accordance with Method 9 of appendix A-4 to part 60 of this chapter. The duration of the Method 9 test must be 30 minutes.
- (3) If visible emissions are observed during any Method 22 visible emissions test conducted under paragraphs (f)(1) or (2) of this section, you must initiate, within one-hour, the corrective actions specified in your operation and maintenance plan as required in § 63.1347.
- (4) The requirements under paragraph (f)(2) of this section to conduct daily Method 22 testing do not apply to any specific raw mill or finish mill equipped with a COMS or BLDS.
- (i) If the owner or operator chooses to install a COMS in lieu of conducting the daily

visible emissions testing required under paragraph (f)(2) of this section, then the COMS must be installed at the outlet of the PM control device of the raw mill or finish mill and the COMS must be installed, maintained, calibrated, and operated as required by the general provisions in subpart A of this part and according to PS-1 of appendix B to part 60 of this chapter.

- (ii) If you choose to install a BLDS in lieu of conducting the daily visible emissions testing required under paragraph (f)(2) of this section, the requirements in paragraphs (m)(1) through (m)(4), (m)(10) and (m)(11) of this section apply.
- (g) *D/F monitoring requirements.* If you are subject to an emissions limitation on D/F emissions, you must comply with the monitoring requirements of paragraphs (g)(1) through (5) and (m)(1) through (4) of this section to demonstrate continuous compliance with the D/F emissions standard. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (4) of this section.
- (1) You must install, calibrate, maintain, and continuously operate a CMS to record the temperature of the exhaust gases from the kiln and alkali bypass, if applicable, at the inlet to, or upstream of, the kiln and/or alkali bypass PMCDs.
    - (i) The temperature recorder response range must include zero and 1.5 times the average temperature established according to the requirements in § 63.1349(b)(3)(iv).
    - (ii) The calibration reference for the temperature measurement must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.
    - (iii) The calibration of all thermocouples and other temperature sensors must be verified at least once every three months.
  - (2) You must monitor and continuously record the temperature of the exhaust gases from the kiln and alkali bypass, if applicable, at the inlet to the kiln and/or alkali bypass PMCD.
  - (3) The required minimum data collection frequency must be one minute.
  - (4) Every hour, record the calculated rolling three-hour average temperature using the average of 180 successive one-minute average temperatures. See § 63.1349(b)(3).
  - (5) When the operating status of the raw mill of the in-line kiln/raw mill is changed from off to on or from on to off, the calculation of the three-hour rolling average temperature must begin anew, without considering previous recordings.
- (h) *Monitoring requirements for sources using sorbent injection.* If you are subject to an operating limit on D/F emissions that employs carbon injection as an emission control technique, you must comply with the additional monitoring requirements of paragraphs (h)(1) and (h)(2) and

paragraphs (m)(1) through (m)(4) and (m)(9) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (p)(4) of this section.

- (1) Install, operate, calibrate, and maintain a continuous monitor to record the rate of activated carbon injection. The accuracy of the rate measurement device must be  $\pm 1$  percent of the rate being measured.
  - (i) Verify the calibration of the device at least once every three months.
  - (ii) Each hour, calculate the three-hour rolling average activated carbon injection rate for the previous three hours of process operation. See § 63.1349(b)(3).
  - (iii) When the operating status of the raw mill of the in-line kiln/raw mill is changed from off to on or from on to off, the calculation of the three-hour rolling average activated carbon injection rate must begin anew, without considering previous recordings.

- (2)
  - (i) Install, operate, calibrate, and maintain a continuous monitor to record the activated carbon injection system carrier gas parameter (either the carrier gas flow rate or the carrier gas pressure drop) established during the D/F performance test in accordance with § 63.1349(b)(3).
  - (ii) Each hour, calculate the 3-hour rolling average of the selected parameter value for the previous 3 hours of process operation using all of the one-minute data available (*i.e.*, the CMS is not out-of-control).

(i) *THC Monitoring Requirements.* If you are subject to an emissions limitation on THC emissions, you must comply with the monitoring requirements of paragraphs (i)(1) and (i)(2) and (m)(1) through (m)(4) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (p)(4) of this section.

- (1) You must install, operate, and maintain a THC continuous emission monitoring system in accordance with Performance Specification 8 or Performance Specification 8A of appendix B to part 60 of this chapter and comply with all of the requirements for continuous monitoring systems found in the general provisions, subpart A of this part. The owner or operator must operate and maintain each CEMS according to the quality assurance requirements in Procedure 1 of appendix F in part 60 of this chapter. For THC continuous emission monitoring systems certified under Performance Specification 8A, conduct the relative accuracy test audits required under Procedure 1 in accordance with Performance Specification 8, Sections 8 and 11 using Method 25A in appendix A to 40 CFR part 60 as the reference method; the relative accuracy must meet the criteria of Performance Specification 8, Section 13.2.
- (2) Performance tests on alkali bypass and coal mill stacks must be conducted using Method 25A in appendix A to 40 CFR part 60 and repeated every 30 months.

(j) *Total organic HAP monitoring requirements.* If you are complying with the total organic HAP

emissions limits, you must continuously monitor THC according to paragraphs (i)(1) and (2) of this section or in accordance with Performance Specification 8 or Performance Specification 8A of appendix B to part 60 of this chapter and comply with all of the requirements for continuous monitoring systems found in the general provisions, subpart A of this part. You must operate and maintain each CEMS according to the quality assurance requirements in Procedure 1 of appendix F in part 60 of this chapter. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (4) of this section.

- (k) *Mercury monitoring requirements.* If you have a kiln subject to an emissions limitation on mercury emissions, you must install and operate a mercury continuous emissions monitoring system (Hg CEMS) in accordance with Performance Specification 12A (PS 12A) of appendix B to part 60 of this chapter or an integrated sorbent trap monitoring system in accordance with Performance Specification 12B (PS 12B) of appendix B to part 60 of this chapter. You must monitor mercury continuously according to paragraphs (k)(1) through (5) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (4) of this section.
- (1) You must use a span value for any Hg CEMS that represents the mercury concentration corresponding to approximately two times the emissions standard and may be rounded up to the nearest multiple of 5  $\mu\text{g}/\text{m}^3$  of total mercury or higher level if necessary to include Hg concentrations which may occur (excluding concentrations during in-line raw “mill off” operation). As specified in PS 12A, Section 6.1.1, the data recorder output range must include the full range of expected Hg concentration values which would include those expected during “mill off” conditions. Engineering judgments made and calculations used to determine the corresponding span concentration from the emission standard shall be documented in the site-specific monitoring plan and associated records.
  - (2) In order to quality assure data measured above the span value, you must use one of the four options in paragraphs (k)(2)(i) through (iv) of this section.
    - (i) Include a second span that encompasses the Hg emission concentrations expected to be encountered during “mill off” conditions. This second span may be rounded to a multiple of 5  $\mu\text{g}/\text{m}^3$  of total mercury. The requirements of PS 12A, shall be followed for this second span with the exception that a RATA with the mill off is not required.
    - (ii) Quality assure any data above the span value by proving instrument linearity beyond the span value established in paragraph (k)(1) of this section using the following procedure. Conduct a weekly “above span linearity” calibration challenge of the monitoring system using a reference gas with a certified value greater than your highest expected hourly concentration or greater than 75 percent of the highest measured hourly concentration. The “above span” reference gas must meet the requirements of PS 12A, Section 7.1 and must be introduced to the measurement system at the probe. Record and report the results of this procedure as you would for a daily calibration. The “above span linearity” challenge is successful if the value measured by the Hg CEMS falls within 10 percent of the certified value of the reference gas. If the value measured by the Hg CEMS during the above span linearity challenge exceeds  $\pm 10$  percent of the certified value of the

reference gas, the monitoring system must be evaluated and repaired and a new “above span linearity” challenge met before returning the Hg CEMS to service, or data above span from the Hg CEMS must be subject to the quality assurance procedures established in paragraph (k)(2)(iii) of this section. In this manner all hourly average values exceeding the span value measured by the Hg CEMS during the week following the above span linearity challenge when the CEMS response exceeds  $\pm 20$  percent of the certified value of the reference gas must be normalized using Equation 22.

$$\frac{\text{Certified reference gas value}}{\text{Measured value of reference gas}} \times \text{Measured stack gas result} = \text{Normalized stack gas result} \quad (\text{Eq. 22})$$

- (iii) Quality assure any data above the span value established in paragraph (k)(1) of this section using the following procedure. Any time two consecutive 1-hour average measured concentrations of Hg exceeds the span value you must, within 24 hours before or after, introduce a higher, “above span” Hg reference gas standard to the Hg CEMS. The “above span” reference gas must meet the requirements of PS 12A, Section 7.1, must target a concentration level between 50 and 150 percent of the highest expected hourly concentration measured during the period of measurements above span, and must be introduced at the probe. While this target represents a desired concentration range that is not always achievable in practice, it is expected that the intent to meet this range is demonstrated by the value of the reference gas. Expected values may include “above span” calibrations done before or after the above span measurement period. Record and report the results of this procedure as you would for a daily calibration. The “above span” calibration is successful if the value measured by the Hg CEMS is within 20 percent of the certified value of the reference gas. If the value measured by the Hg CEMS exceeds 20 percent of the certified value of the reference gas, then you must normalize the one-hour average stack gas values measured above the span during the 24-hour period preceding or following the “above span” calibration for reporting based on the Hg CEMS response to the reference gas as shown in Equation 22. Only one “above span” calibration is needed per 24-hour period.
- (3) You must operate and maintain each Hg CEMS or an integrated sorbent trap monitoring system according to the quality assurance requirements in Procedure 5 of appendix F to part 60 of this chapter. During the RATA of integrated sorbent trap monitoring systems required under Procedure 5, you may apply the appropriate exception for sorbent trap section 2 breakthrough in (k)(3)(i) through (iv) of this section:
- (i) For stack Hg concentrations  $>1 \mu\text{g/dscm}$ ,  $\leq 10\%$  of section 1 mass;
  - (ii) For stack Hg concentrations  $\leq 1 \mu\text{g/dscm}$  and  $>0.5 \mu\text{g/dscm}$ ,  $\leq 20\%$  of section 1 mass;
  - (iii) For stack Hg concentrations  $\leq 0.5 \mu\text{g/dscm}$  and  $>0.1 \mu\text{g/dscm}$ ,  $\leq 50\%$  of section 1 mass; and

- (iv) For stack Hg concentrations  $\leq 0.1$   $\mu\text{g}/\text{dscm}$ , no breakthrough criterion assuming all other QA/QC specifications are met.
- (4) Relative accuracy testing of mercury monitoring systems under PS 12A, PS 12B, or Procedure 5 must be conducted at normal operating conditions. If a facility has an inline raw mill, the testing must occur with the raw mill on.
- (5) If you use a Hg CEMS or an integrated sorbent trap monitoring system, you must install, operate, calibrate, and maintain an instrument for continuously measuring and recording the exhaust gas flow rate to the atmosphere according to the requirements in paragraphs (n)(1) through (10) of this section. If kiln gases are diverted through an alkali bypass or to a coal mill and exhausted through separate stacks, you must account for the mercury emitted from those stacks by following the procedures in (k)(5)(i) through (iv) of this section:
  - (i) Develop a mercury hourly mass emissions rate by conducting performance tests annually, within 11 to 13 calendar months after the previous performance test, using Method 29, or Method 30B, to measure the concentration of mercury in the gases exhausted from the alkali bypass and coal mill.
  - (ii) On a continuous basis, determine the mass emissions of mercury in lb/hr from the alkali bypass and coal mill exhausts by using the mercury hourly emissions rate and the exhaust gas flow rate to calculate hourly mercury emissions in lb/hr.
  - (iii) Sum the hourly mercury emissions from the kiln, alkali bypass and coal mill to determine total mercury emissions. Using hourly clinker production, calculate the hourly emissions rate in pounds per ton of clinker to determine your 30 day rolling average.
  - (iv) If mercury emissions from the coal mill and alkali bypass are below the method detection limit for two consecutive annual performance tests, you may reduce the frequency of the performance tests of coal mills and alkali bypasses to once every 30 months. If the measured mercury concentration exceeds the method detection limit, you must revert to testing annually until two consecutive annual tests are below the method detection limit.
- (6) If you operate an integrated sorbent trap monitoring system conforming to PS 12B, you may use a monitoring period at least 24 hours but no longer than 168 hours in length. You should use a monitoring period that is a multiple of 24 hours (except during relative accuracy testing as allowed in PS 12B).
- (l) *HCl Monitoring Requirements.* If you are subject to an emissions limitation on HCl emissions in § ~~63.1343~~, you must monitor HCl emissions continuously according to paragraph (1)(1) or (2) and paragraphs (m)(1) through (4) of this section or, if your kiln is controlled using a wet or dry scrubber or tray tower, you alternatively may parametrically monitor SO<sub>2</sub> emissions continuously according to paragraph (1)(3) of this section. You must also develop an emissions monitoring plan

in accordance with paragraphs (p)(1) through (4) of this section.

- (1) If you monitor compliance with the HCl emissions limit by operating an HCl CEMS, you must do so in accordance with Performance Specification (PS) 15 or PS 18 of appendix B to part 60 of this chapter, or, upon promulgation, in accordance with any other performance specification for HCl CEMS in appendix B to part 60 of this chapter. You must operate, maintain, and quality assure a HCl CEMS installed and certified under PS 15 according to the quality assurance requirements in Procedure 1 of appendix F to part 60 of this chapter except that the Relative Accuracy Test Audit requirements of Procedure 1 must be replaced with the validation requirements and criteria of sections 11.1.1 and 12.0 of PS 15. If you choose to install and operate an HCl CEMS in accordance with PS 18, you must operate, maintain, and quality assure the HCl CEMS using the associated Procedure 6 of appendix F to part 60 of this chapter. For any performance specification that you use, you must use Method 321 of appendix A to this part as the reference test method for conducting relative accuracy testing. The span value and calibration requirements in paragraphs (l)(1)(i) and (ii) of this section apply to HCl CEMS other than those installed and certified under PS 15 or PS 18.
  - (i) You must use a measurement span value for any HCl CEMS of 0-10 ppmvw unless the monitor is installed on a kiln without an inline raw mill. Kilns without an inline raw mill may use a higher span value sufficient to quantify all expected emissions concentrations. The HCl CEMS data recorder output range must include the full range of expected HCl concentration values which would include those expected during “mill off” conditions. The corresponding data recorder range shall be documented in the site-specific monitoring plan and associated records.
  - (ii) In order to quality assure data measured above the span value, you must use one of the three options in paragraphs (l)(1)(ii)(A) through (C) of this section.
    - (A) Include a second span that encompasses the HCl emission concentrations expected to be encountered during “mill off” conditions. This second span may be rounded to a multiple of 5 ppm of total HCl. The requirements of the appropriate HCl monitor performance specification shall be followed for this second span with the exception that a RATA with the mill off is not required.
    - (B) Quality assure any data above the span value by proving instrument linearity beyond the span value established in paragraph (l)(1)(i) of this section using the following procedure. Conduct a weekly “above span linearity” calibration challenge of the monitoring system using a reference gas with a certified value greater than your highest expected hourly concentration or greater than 75 percent of the highest measured hourly concentration. The “above span” reference gas must meet the requirements of the applicable performance specification and must be introduced to the measurement system at the probe. Record and report the results of this procedure as you would for a daily calibration. The “above span linearity” challenge is successful if the value measured by the HCl CEMS falls within

10 percent of the certified value of the reference gas. If the value measured by the HCl CEMS during the above span linearity challenge exceeds 10 percent of the certified value of the reference gas, the monitoring system must be evaluated and repaired and a new “above span linearity” challenge met before returning the HCl CEMS to service, or data above span from the HCl CEMS must be subject to the quality assurance procedures established in paragraph (l)(1)(ii)(D) of this section. Any HCl CEMS above span linearity challenge response exceeding  $\pm 20$  percent of the certified value of the reference gas requires that all above span hourly averages during the week following the above span linearity challenge must be normalized using Equation 23.

- (C) Quality assure any data above the span value established in paragraph (l)(1)(i) of this section using the following procedure. Any time two consecutive one-hour average measured concentration of HCl exceeds the span value you must, within 24 hours before or after, introduce a higher, “above span” HCl reference gas standard to the HCl CEMS. The “above span” reference gas must meet the requirements of the applicable performance specification and target a concentration level between 50 and 150 percent of the highest expected hourly concentration measured during the period of measurements above span, and must be introduced at the probe. While this target represents a desired concentration range that is not always achievable in practice, it is expected that the intent to meet this range is demonstrated by the value of the reference gas. Expected values may include above span calibrations done before or after the above-span measurement period. Record and report the results of this procedure as you would for a daily calibration. The “above span” calibration is successful if the value measured by the HCl CEMS is within 20 percent of the certified value of the reference gas. If the value measured by the HCl CEMS is not within 20 percent of the certified value of the reference gas, then you must normalize the stack gas values measured above span as described in paragraph (l)(1)(ii)(D) of this section.
- (D) In the event that the “above span” calibration is not successful (*i.e.*, the HCl CEMS measured value is not within 20 percent of the certified value of the reference gas), then you must normalize the one-hour average stack gas values measured above the span during the 24-hour period preceding or following the ‘above span’ calibration for reporting based on the HCl CEMS response to the reference gas as shown in Equation 23:

$$\frac{\text{Certified reference gas value}}{\text{Measured value of reference gas}} \times \text{Measured stack gas result} \\ = \text{Normalized stack gas result} \quad (\text{Eq. 23})$$



Only one “above span” calibration is needed per 24-hour period.

- (2) Install, operate, and maintain a CMS to monitor wet scrubber or tray tower parameters, as specified in paragraphs (m)(5) and (7) of this section, and dry scrubber, as specified in paragraph (m)(9) of this section.
- (3) If the source is equipped with a wet or dry scrubber or tray tower, and you choose to monitor SO<sub>2</sub> emissions, monitor SO<sub>2</sub> emissions continuously according to the requirements of § 60.63(e) and (f) of this chapter. If SO<sub>2</sub> levels increase above the 30-day rolling average SO<sub>2</sub> operating limit established during your performance test by 10 percent or more, you must:
  - (i) As soon as possible but no later than 30 days after you exceed the established SO<sub>2</sub> value conduct an inspection and take corrective action to return the SO<sub>2</sub> emissions to within the operating limit; and
  - (ii) Within 90 days of the exceedance or at the time of the next compliance test, whichever comes first, conduct an HCl emissions compliance test to determine compliance with the HCl emissions limit and to verify or re-establish the SO<sub>2</sub> CEMS operating limit.
- (4) If you monitor continuous performance through the use of an HCl CPMS according to paragraphs (b)(6)(v)(A) through (H) of ~~§ 63.1349~~, for any exceedance of the 30 kiln operating day HCl CPMS average value from the established operating limit, you must:
  - (i) Within 48 hours of the exceedance, visually inspect the APCD;
  - (ii) If inspection of the APCD identifies the cause of the exceedance, take corrective action as soon as possible and return the HCl CPMS measurement to within the established value; and
  - (iii) Within 30 days of the exceedance or at the time of the annual compliance test, whichever comes first, conduct an HCl emissions compliance test to determine compliance with the HCl emissions limit and to verify or reestablish the HCl CPMS operating limit within 45 days. You are not required to conduct additional testing for any exceedances that occur between the time of the original exceedance and the HCl emissions compliance test required under this paragraph.
  - (iv) HCl CPMS exceedances leading to more than four required performance tests in a 12-month process operating period (rolling monthly) constitute a presumptive violation of this subpart.
- (m) *Parameter monitoring requirements.* If you have an operating limit that requires the use of a CMS, you must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the procedures in paragraphs (m)(1) through (4) of this section by the compliance date specified in ~~§ 63.1351~~. You must also meet the applicable specific parameter monitoring

requirements in paragraphs (m)(5) through (11) that are applicable to you.

- (1) The CMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four successive cycles of operation to have a valid hour of data.
- (2) You must conduct all monitoring in continuous operation at all times that the unit is operating.
- (3) Determine the 1-hour block average of all recorded readings.
- (4) Record the results of each inspection, calibration, and validation check.
- (5) *Liquid flow rate monitoring requirements.* If you have an operating limit that requires the use of a flow measurement device, you must meet the requirements in paragraphs (m)(5)(i) through (iv) of this section.
  - (i) Locate the flow sensor and other necessary equipment in a position that provides a representative flow.
  - (ii) Use a flow sensor with a measurement sensitivity of 2 percent of the flow rate.
  - (iii) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.
  - (iv) Conduct a flow sensor calibration check at least semiannually.
- (6) *Specific pressure monitoring requirements.* If you have an operating limit that requires the use of a pressure measurement device, you must meet the requirements in paragraphs (m)(6)(i) through (vi) of this section.
  - (i) Locate the pressure sensor(s) in a position that provides a representative measurement of the pressure.
  - (ii) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.
  - (iii) Use a gauge with a minimum tolerance of 1.27 centimeters of water or a transducer with a minimum tolerance of 1 percent of the pressure range.
  - (iv) Check pressure tap pluggage daily.
  - (v) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.
  - (vi) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

- (7) *Specific pH monitoring requirements.* If you have an operating limit that requires the use of a pH measurement device, you must meet the requirements in paragraphs (m)(7)(i) through (iii) of this section.
- (i) Locate the pH sensor in a position that provides a representative measurement of wet scrubber or tray tower effluent pH.
  - (ii) Ensure the sample is properly mixed and representative of the fluid to be measured.
  - (iii) Check the pH meter's calibration on at least two points every 8 hours of process operation.
- (8) [Reserved]
- (9) *Mass flow rate (for sorbent injection) monitoring requirements.* If you have an operating limit that requires the use of equipment to monitor sorbent injection rate (e.g., weigh belt, weigh hopper, or hopper flow measurement device), you must meet the requirements in paragraphs (m)(9)(i) through (iii) of this section. These requirements also apply to the sorbent injection equipment of a dry scrubber.
- (i) Locate the device in a position(s) that provides a representative measurement of the total sorbent injection rate.
  - (ii) Install and calibrate the device in accordance with manufacturer's procedures and specifications.
  - (iii) At least annually, calibrate the device in accordance with the manufacturer's procedures and specifications.
- (10) *Bag leak detection monitoring requirements.* If you elect to use a fabric filter bag leak detection system to comply with the requirements of this subpart, you must install, calibrate, maintain, and continuously operate a BLDS as specified in paragraphs (m)(10)(i) through (viii) of this section.
- (i) You must install and operate a BLDS for each exhaust stack of the fabric filter.
  - (ii) Each BLDS must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer's written specifications and recommendations and in accordance with the guidance provided in EPA-454/R-98-015, September 1997.
  - (iii) The BLDS must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 or fewer milligrams per actual cubic meter.
  - (iv) The BLDS sensor must provide output of relative or absolute PM loadings.
  - (v) The BLDS must be equipped with a device to continuously record the output signal

from the sensor.

- (vi) The BLDS must be equipped with an alarm system that will alert an operator automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located such that the alert is detected and recognized easily by an operator.
  - (vii) For positive pressure fabric filter systems that do not duct all compartments of cells to a common stack, a BLDS must be installed in each baghouse compartment or cell.
  - (viii) Where multiple bag leak detectors are required, the system's instrumentation and alarm may be shared among detectors.
- (11) For each BLDS, the owner or operator must initiate procedures to determine the cause of every alarm within 8 hours of the alarm. The owner or operator must alleviate the cause of the alarm within 24 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:
- (i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in PM emissions;
  - (ii) Sealing off defective bags or filter media;
  - (iii) Replacing defective bags or filter media or otherwise repairing the control device;
  - (iv) Sealing off a defective fabric filter compartment;
  - (v) Cleaning the BLDS probe or otherwise repairing the BLDS; or
  - (vi) Shutting down the process producing the PM emissions.
- (n) *Continuous Flow Rate Monitoring System.* You must install, operate, calibrate, and maintain instruments, according to the requirements in paragraphs (n)(1) through (10) of this section, for continuously measuring and recording the stack gas flow rate to allow determination of the pollutant mass emissions rate to the atmosphere from sources subject to an emissions limitation that has a pounds per ton of clinker unit and that is required to be monitored by a CEMS.
- (1) You must install each sensor of the flow rate monitoring system in a location that provides representative measurement of the exhaust gas flow rate at the sampling location of the mercury CEMS, taking into account the manufacturer's recommendations. The flow rate sensor is that portion of the system that senses the volumetric flow rate and generates an output proportional to that flow rate.
  - (2) The flow rate monitoring system must be designed to measure the exhaust flow rate over a range that extends from a value of at least 20 percent less than the lowest expected exhaust flow rate to a value of at least 20 percent greater than the highest expected exhaust flow

rate.

- (3) [Reserved]
  - (4) The flow rate monitoring system must be equipped with a data acquisition and recording system that is capable of recording values over the entire range specified in paragraph (n)(2) of this section.
  - (5) The signal conditioner, wiring, power supply, and data acquisition and recording system for the flow rate monitoring system must be compatible with the output signal of the flow rate sensors used in the monitoring system.
  - (6) The flow rate monitoring system must be designed to complete a minimum of one cycle of operation for each successive 15-minute period.
  - (7) The flow rate sensor must have provisions to determine the daily zero and upscale calibration drift (CD) (*see* sections 3.1 and 8.3 of Performance Specification 2 in appendix B to Part 60 of this chapter for a discussion of CD).
    - (i) Conduct the CD tests at two reference signal levels, zero (e.g., 0 to 20 percent of span) and upscale (e.g., 50 to 70 percent of span).
    - (ii) The absolute value of the difference between the flow monitor response and the reference signal must be equal to or less than 3 percent of the flow monitor span.
  - (8) You must perform an initial relative accuracy test of the flow rate monitoring system according to Section 8.2 of Performance Specification 6 of appendix B to part 60 of the chapter with the exceptions in paragraphs (n)(8)(i) and (n)(8)(ii) of this section.
    - (i) The relative accuracy test is to evaluate the flow rate monitoring system alone rather than a continuous emission rate monitoring system.
    - (ii) The relative accuracy of the flow rate monitoring system shall be no greater than 10 percent of the mean value of the reference method data.
  - (9) You must verify the accuracy of the flow rate monitoring system at least once per year by repeating the relative accuracy test specified in paragraph (n)(8).
  - (10) You must operate the flow rate monitoring system and record data during all periods of operation of the affected facility including periods of startup, shutdown, and malfunction, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments).
- (o) *Alternate monitoring requirements approval.* You may submit an application to the Administrator for approval of alternate monitoring requirements to demonstrate compliance with the emission

standards of this subpart subject to the provisions of paragraphs (o)(1) through (6) of this section.

- (1) The Administrator will not approve averaging periods other than those specified in this section, unless you document, using data or information, that the longer averaging period will ensure that emissions do not exceed levels achieved during the performance test over any increment of time equivalent to the time required to conduct three runs of the performance test.
- (2) If the application to use an alternate monitoring requirement is approved, you must continue to use the original monitoring requirement until approval is received to use another monitoring requirement.
- (3) You must submit the application for approval of alternate monitoring requirements no later than the notification of performance test. The application must contain the information specified in paragraphs (o)(3)(i) through (iii) of this section:
  - (i) Data or information justifying the request, such as the technical or economic infeasibility, or the impracticality of using the required approach;
  - (ii) A description of the proposed alternative monitoring requirement, including the operating parameter to be monitored, the monitoring approach and technique, the averaging period for the limit, and how the limit is to be calculated; and
  - (iii) Data or information documenting that the alternative monitoring requirement would provide equivalent or better assurance of compliance with the relevant emission standard.
- (4) The Administrator will notify you of the approval or denial of the application within 90 calendar days after receipt of the original request, or within 60 calendar days of the receipt of any supplementary information, whichever is later. The Administrator will not approve an alternate monitoring application unless it would provide equivalent or better assurance of compliance with the relevant emission standard. Before disapproving any alternate monitoring application, the Administrator will provide:
  - (i) Notice of the information and findings upon which the intended disapproval is based; and
  - (ii) Notice of opportunity for you to present additional supporting information before final action is taken on the application. This notice will specify how much additional time is allowed for you to provide additional supporting information.
- (5) You are responsible for submitting any supporting information in a timely manner to enable the Administrator to consider the application prior to the performance test. Neither submittal of an application, nor the Administrator's failure to approve or disapprove the application relieves you of the responsibility to comply with any provision of this subpart.
- (6) The Administrator may decide at any time, on a case-by-case basis that additional or

alternative operating limits, or alternative approaches to establishing operating limits, are necessary to demonstrate compliance with the emission standards of this subpart.

- (p) *Development and submittal (upon request) of monitoring plans.* If you demonstrate compliance with any applicable emissions limit through performance stack testing or other emissions monitoring, you must develop a site-specific monitoring plan according to the requirements in paragraphs (p)(1) through (4) of this section. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under paragraph (o) of this section and § 63.8(f). If you use a BLDS, you must also meet the requirements specified in paragraph (p)(5) of this section.
- (1) For each CMS required in this section, you must develop, and submit to the permitting authority for approval upon request, a site-specific monitoring plan that addresses paragraphs (p)(1)(i) through (iii) of this section. You must submit this site-specific monitoring plan, if requested, at least 30 days before your initial performance evaluation of your CMS.
    - (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);
    - (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and
    - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations).
  - (2) In your site-specific monitoring plan, you must also address paragraphs (p)(2)(i) through (iii) of this section.
    - (i) Ongoing operation and maintenance procedures in accordance with the general requirements of § 63.8(c)(1), (c)(3), and (c)(4)(ii);
    - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of § 63.8(d); and
    - (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of § 63.10(c), (e)(1), and (e)(2)(i).
  - (3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan.
  - (4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.
  - (5) *BLDS monitoring plan.* Each monitoring plan must describe the items in paragraphs

(p)(5)(i) through (v) of this section. At a minimum, you must retain records related to the site-specific monitoring plan and information discussed in paragraphs (m)(1) through (4), (m)(10) and (11) of this section for a period of 5 years, with at least the first 2 years on-site;

- (i) Installation of the BLDS;
- (ii) Initial and periodic adjustment of the BLDS, including how the alarm set-point will be established;
- (iii) Operation of the BLDS, including quality assurance procedures;
- (iv) How the BLDS will be maintained, including a routine maintenance schedule and spare parts inventory list;
- (v) How the BLDS output will be recorded and stored.

[75 FR 55059, Sept. 9, 2010, as amended at 76 FR 2836, Jan. 18, 2011; 78 FR 10048, Feb. 12, 2013; 80 FR 44788, July 27, 2015; 80 FR 54729, Sept. 11, 2015; 81 FR 48361, July 25, 2016; 82 FR 28565, June 23, 2017; 82 FR 39673, Aug. 22, 2017; 83 FR 35133, July 25, 2018]

### **§ 63.1351 Compliance dates.**

- (a) The compliance date for any affected existing source subject to any rule requirements that were in effect before December 20, 2006, is:
  - (1) June 14, 2002, for sources that commenced construction before or on March 24, 1998, or
  - (2) June 14, 1999 or startup for sources that commenced construction after March 24, 1998.
- (b) The compliance date for any affected existing source subject to any rule requirements that became effective on December 20, 2006, is:
  - (1) December 21, 2009, for sources that commenced construction after December 2, 2005 and before or on December 20, 2006, or
  - (2) Startup for sources that commenced construction after December 20, 2006.
- (c) The compliance date for existing sources for all the requirements that became effective on February 12, 2013, except for the open clinker pile requirements will be September 9, 2015.
- (d) The compliance date for new sources is February 12, 2013, or startup, whichever is later.
- (e) The compliance date for existing sources with the requirements for open clinker storage piles in §



63.1343(c) is February 12, 2014.

[76 FR 2836, Jan. 18, 2011, as amended at 78 FR 10053, Feb. 12, 2013]

#### **§ 63.1352 Additional test methods.**

- (a) If you are conducting tests to determine the rates of emission of HCl from kilns and associated bypass stacks at Portland cement manufacturing facilities, for use in applicability determinations under § 63.1340, you may use Method 320 or Method 321 of appendix A of this part.
- (b) Owners or operators conducting tests to determine the rates of emission of specific organic HAP from raw material dryers, and kilns at Portland cement manufacturing facilities, solely for use in applicability determinations under § 63.1340 of this subpart are permitted to use Method 320 of appendix A to this part, or Method 18 of appendix A to part 60 of this chapter.

[75 FR 55063, Sept. 9, 2010, as amended at 78 FR 10053, Feb. 12, 2013]

## **NOTIFICATION, REPORTING AND RECORDKEEPING**

#### **§ 63.1353 Notification requirements.**

- (a) The notification provisions of 40 CFR part 63, subpart A that apply and those that do not apply to owners and operators of affected sources subject to this subpart are listed in Table 1 of this subpart. If any State requires a notice that contains all of the information required in a notification listed in this section, the owner or operator may send the Administrator a copy of the notice sent to the State to satisfy the requirements of this section for that notification.
- (b) Each owner or operator subject to the requirements of this subpart shall comply with the notification requirements in § 63.9 as follows:
  - (1) Initial notifications as required by § 63.9(b) through (d). For the purposes of this subpart, a Title V or 40 CFR part 70 permit application may be used in lieu of the initial notification required under § 63.9(b), provided the same information is contained in the permit application as required by § 63.9(b), and the State to which the permit application has been submitted has an approved operating permit program under part 70 of this chapter and has received delegation of authority from the EPA. Permit applications shall be submitted by the same due dates as those specified for the initial notification.
  - (2) Notification of performance tests, as required by §§ 63.7 and 63.9(e).
  - (3) Notification of opacity and visible emission observations required by § 63.1349 in accordance with §§ 63.6(h)(5) and 63.9(f).

- (4) Notification, as required by § 63.9(g), of the date that the continuous emission monitor performance evaluation required by § 63.8(e) is scheduled to begin.
- (5) Notification of compliance status, as required by § 63.9(h).
- (6) Within 48 hours of an exceedance that triggers retesting to establish compliance and new operating limits, notify the appropriate permitting agency of the planned performance tests. The notification requirements of §§ 63.7(b) and 63.9(e) do not apply to retesting required for exceedances under this subpart.

[64 FR 31925, June 14, 1999, as amended at 78 FR 10053, Feb. 12, 2013]

### **§ 63.1354 Reporting requirements.**

- (a) The reporting provisions of subpart A of this part that apply and those that do not apply to owners or operators of affected sources subject to this subpart are listed in Table 1 of this subpart. If any State requires a report that contains all of the information required in a report listed in this section, the owner or operator may send the Administrator a copy of the report sent to the State to satisfy the requirements of this section for that report.
- (b) The owner or operator of an affected source shall comply with the reporting requirements specified in § 63.10 of the general provisions of this part 63, subpart A as follows:
  - (1) As required by § 63.10(d)(2), the owner or operator shall report the results of performance tests as part of the notification of compliance status.
  - (2) As required by § 63.10(d)(3), the owner or operator of an affected source shall report the opacity results from tests required by § 63.1349.
  - (3) As required by § 63.10(d)(4), the owner or operator of an affected source who is required to submit progress reports as a condition of receiving an extension of compliance under § 63.6(i) shall submit such reports by the dates specified in the written extension of compliance.
  - (4)-(5) [Reserved]
  - (6) As required by § 63.10(e)(2), the owner or operator shall submit a written report of the results of the performance evaluation for the continuous monitoring system required by § 63.8(e). The owner or operator shall submit the report simultaneously with the results of the performance test.
  - (7) As required by § 63.10(e)(2), the owner or operator of an affected source using a continuous opacity monitoring system to determine opacity compliance during any performance test required under § 63.7 and described in § 63.6(d)(6) shall report the results of the continuous opacity monitoring system performance evaluation conducted under §

63.8(e).

- (8) As required by § 63.10(e)(3), the owner or operator of an affected source equipped with a continuous emission monitor shall submit an excess emissions and continuous monitoring system performance report for any event when the continuous monitoring system data indicate the source is not in compliance with the applicable emission limitation or operating parameter limit.
- (9) The owner or operator shall submit a summary report semiannually within 60 days of the reporting period to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the extensible markup language (XML) schema listed on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri>), once the XML schema is available. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report the Administrator at the appropriate address listed in § 63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. The excess emissions and summary reports must be submitted no later than 60 days after the end of the reporting period, regardless of the method in which the reports are submitted. The report must contain the information specified in § 63.10(e)(3)(vi). In addition, the summary report shall include:
- (i) All exceedances of maximum control device inlet gas temperature limits specified in § 63.1346(a) and (b);
  - (ii) Notification of any failure to calibrate thermocouples and other temperature sensors as required under § 63.1350(g)(1)(iii) of this subpart; and
  - (iii) Notification of any failure to maintain the activated carbon injection rate, and the activated carbon injection carrier gas flow rate or pressure drop, as applicable, as required under § 63.1346(c)(2).
  - (iv) Notification of failure to conduct any combustion system component inspections conducted within the reporting period as required under § 63.1347(a)(3).
  - (v) Any and all failures to comply with any provision of the operation and maintenance plan developed in accordance with § 63.1347(a).
  - (vi) For each PM CPMS, HCl, Hg, and THC CEMS, SO<sub>2</sub> CEMS, or Hg sorbent trap monitoring system, within 60 days after the reporting periods, you must report all of the calculated 30-operating day rolling average values derived from the CPMS, CEMS, CMS, or Hg sorbent trap monitoring systems.
  - (vii) In response to each violation of an emissions standard or established operating

parameter limit, the date, duration and description of each violation and the specific actions taken for each violation including inspections, corrective actions and repeat performance tests and the results of those actions.

- (10) If the total continuous monitoring system downtime for any CEM or any CMS for the reporting period is 10 percent or greater of the total operating time for the reporting period, the owner or operator shall submit an excess emissions and continuous monitoring system performance report along with the summary report.
- (11)
- (i) You must submit the information specified in paragraphs (b)(11)(i)(A) and (B) of this section no later than 60 days following the initial performance test. All reports must be signed by a responsible official.
- (A) The initial performance test data as recorded under § 63.1349(a).
- (B) The values for the site-specific operating limits or parameters established pursuant to § 63.1349(b)(1), (3), (6), (7), and (8), as applicable, and a description, including sample calculations, of how the operating parameters were established during the initial performance test.
- (C) As of December 31, 2011, and within 60 days after the date of completing each performance evaluation or test, as defined in § 63.2, conducted to demonstrate compliance with any standard covered by this subpart, you must submit the relative accuracy test audit data and performance test data, except opacity data, to the EPA by successfully submitting the data electronically via CEDRI and by using the Electronic Reporting Tool (ERT) (see <https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>). For any performance evaluations with no corresponding RATA pollutants listed on the ERT website, you must submit the results of the performance evaluation to the Administrator at the appropriate address listed in § 63.13.
- (ii) For PM performance test reports used to set a PM CPMS operating limit, the electronic submission of the test report must also include the make and model of the PM CPMS instrument, serial number of the instrument, analytical principle of the instrument (*e.g.* beta attenuation), span of the instruments primary analytical range, milliamp value equivalent to the instrument zero output, technique by which this zero value was determined, and the average milliamp signals corresponding to each PM compliance test run.
- (12) All reports required by this subpart not subject to the requirements in paragraphs (b)(9) introductory text and (b)(11)(i) of this section must be sent to the Administrator at the appropriate address listed in § 63.13. The Administrator or the delegated authority may request a report in any form suitable for the specific case (*e.g.*, by commonly used electronic media such as Excel spreadsheet, on CD or hard copy). The Administrator

retains the right to require submittal of reports subject to paragraphs (b)(9) introductory text and (b)(11)(i) of this section in paper format.

- (c) For each failure to meet a standard or emissions limit caused by a malfunction at an affected source, you must report the failure in the semi-annual compliance report required by § 63.1354(b)(9). The report must contain the date, time and duration, and the cause of each event (including unknown cause, if applicable), and a sum of the number of events in the reporting period. The report must list for each event the affected source or equipment, an estimate of the amount of each regulated pollutant emitted over the emission limit for which the source failed to meet a standard, and a description of the method used to estimate the emissions. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with § 63.1348(d), including actions taken to correct a malfunction.

[64 FR 31925, June 14, 1999, as amended at 75 FR 55063, Sept. 9, 2010; 78 FR 10053, Feb. 12, 2013; 80 FR 44790, July 27, 2015; 83 FR 35135, July 25, 2018]

#### **§ 63.1355 Recordkeeping requirements.**

- (a) The owner or operator shall maintain files of all information (including all reports and notifications) required by this section recorded in a form suitable and readily available for inspection and review as required by § 63.10(b)(1). The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site. The files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.
- (b) The owner or operator shall maintain records for each affected source as required by § 63.10(b)(2) and (b)(3) of this part; and
- (1) All documentation supporting initial notifications and notifications of compliance status under § 63.9;
  - (2) All records of applicability determination, including supporting analyses; and
  - (3) If the owner or operator has been granted a waiver under § 63.8(f)(6), any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements.
- (c) In addition to the recordkeeping requirements in paragraph (b) of this section, the owner or operator of an affected source equipped with a continuous monitoring system shall maintain all records required by § 63.10(c).
- (d) [Reserved]

- (e) You must keep records of the daily clinker production rates according to the clinker production monitoring requirements in § 63.1350(d).
- (f) You must keep records of the date, time and duration of each startup or shutdown period for any affected source that is subject to a standard during startup or shutdown that differs from the standard applicable at other times, and the quantity of feed and fuel used during the startup or shutdown period.
- (g)
  - (1) You must keep records of the date, time and duration of each malfunction that causes an affected source to fail to meet an applicable standard; if there was also a monitoring malfunction, the date, time and duration of the monitoring malfunction; the record must list the affected source or equipment, an estimate of the volume of each regulated pollutant emitted over the standard for which the source failed to meet a standard, and a description of the method used to estimate the emissions;
  - (2) You must keep records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.1348(d) including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- (h) For each exceedance from an emissions standard or established operating parameter limit, you must keep records of the date, duration and description of each exceedance and the specific actions taken for each exceedance including inspections, corrective actions and repeat performance tests and the results of those actions.

[64 FR 31925, June 14, 1999, as amended at 71 FR 76552, Dec. 20, 2006; 75 FR 55064, Sept. 9, 2010; 78 FR 10053, Feb. 12, 2013; 80 FR 44791, July 27, 2015; 81 FR 48362, July 25, 2016; 83 FR 35135, July 25, 2018]

## **OTHER**

### **§ 63.1356 Sources with multiple emissions limit or monitoring requirements.**

If you have an affected source subject to this subpart with a different emissions limit or requirement for the same pollutant under another regulation in title 40 of this chapter, once you are in compliance with the most stringent emissions limit or requirement, you are not subject to the less stringent requirement. Until you are in compliance with the more stringent limit, the less stringent limit continues to apply.

[80 FR 44791, July 27, 2015]

### **§ 63.1357 [Reserved]**

### **§ 63.1358 Implementation and enforcement.**

- (a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if this subpart is delegated to a State, local, or Tribal agency.
- (b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.
- (c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.
  - (1) Approval of alternatives to the requirements in §§ 63.1340, 63.1342 through 63.1348, and 63.1351.
  - (2) Approval of major alternatives to test methods under § 63.7(e)(2)(ii) and (f), as defined in § 63.90, and as required in this subpart.
  - (3) Approval of major alternatives to monitoring under § 63.8(f), as defined in § 63.90, and as required in this subpart.
  - (4) Approval of major alternatives to recordkeeping and reporting under § 63.10(f), as defined in § 63.90, and as required in this subpart.

[68 FR 37359, June 23, 2003]

**§ 63.1359 [Reserved]**

**Table 1 to Subpart LLL of Part 63 - Applicability of General Provisions**

Citation	Requirement	Applies to subpart LLL	Explanation
63.1(a)(1)-(4)	Applicability	Yes	
63.1(a)(5)		No	[Reserved].
63.1(a)(6)-(8)	Applicability	Yes	
63.1(a)(9)		No	[Reserved].
63.1(a)(10)-(14)	Applicability	Yes	
63.1(b)(1)	Initial Applicability Determination	No	§ 63.1340 specifies applicability.

63.1(b)(2)-(3)	Initial Applicability Determination	Yes	
63.1(c)(1)	Applicability After Standard Established	Yes	
63.1(c)(2)	Permit Requirements	Yes	Area sources must obtain Title V permits.
63.1(c)(3)		No	[Reserved].
63.1(c)(4)-(5)	Extensions, Notifications	Yes	
63.1(c)(6)	Reclassification	Yes	
63.1(d)		No	[Reserved].
63.1(e)	Applicability of Permit Program	Yes	
63.2	Definitions	Yes	Additional definitions in § 63.1341.
63.3(a)-(c)	Units and Abbreviations	Yes	
63.4(a)(1)-(3)	Prohibited Activities	Yes	
63.4(a)(4)		No	[Reserved].
63.4(a)(5)	Compliance date	Yes	
63.4(b)-(c)	Circumvention, Severability	Yes	
63.5(a)(1)-(2)	Construction/ Reconstruction	Yes	
63.5(b)(1)	Compliance Dates	Yes	
63.5(b)(2)		No	[Reserved].
63.5(b)(3)-(6)	Construction Approval, Applicability	Yes	
63.5(c)		No	[Reserved].
63.5(d)(1)-(4)	Approval of Construction/ Reconstruction	Yes	
63.5(e)	Approval of Construction/ Reconstruction	Yes	
63.5(f)(1)-(2)	Approval of Construction/ Reconstruction	Yes	



63.6(a)	Compliance for Standards and Maintenance	Yes	
63.6(b)(1)-(5)	Compliance Dates	Yes	
63.6(b)(6)		No	[Reserved].
63.6(b)(7)	Compliance Dates	Yes	
63.6(c)(1)-(2)	Compliance Dates	Yes	
63.6(c)(3)-(4)		No	[Reserved].
63.6(c)(5)	Compliance Dates	Yes	
63.6(d)		No	[Reserved].
63.6(e)(1)-(2)	Operation & Maintenance	No	See § 63.1348(d) for general duty requirement. Any reference to § 63.6(e)(1)(i) in other General Provisions or in this subpart is to be treated as a cross-reference to § 63.1348(d).
63.6(e)(3)	Startup, Shutdown Malfunction Plan	No	Your operations and maintenance plan must address periods of startup and shutdown. See § 63.1347(a)(1).
63.6(f)(1)	Compliance with Emission Standards	No	Compliance obligations specified in subpart LLL.
63.6(f)(2)-(3)	Compliance with Emission Standards	Yes	
63.6(g)(1)-(3)	Alternative Standard	Yes	
63.6(h)(1)	Opacity/VE Standards	No	Compliance obligations specified in subpart LLL.
63.6(h)(2)	Opacity/VE Standards	Yes	
63.6(h)(3)		No	[Reserved].
63.6(h)(4)-(h)(5)(i)	Opacity/VE Standards	Yes	
63.6(h)(5)(ii)-(iv)	Opacity/VE Standards	No	Test duration specified in subpart LLL.
63.6(h)(6)	Opacity/VE Standards	Yes	

63.6(h)(7)	Opacity/VE Standards	Yes	
63.6(i)(1)-(14)	Extension of Compliance	Yes	
63.6(i)(15)		No	[Reserved].
63.6(i)(16)	Extension of Compliance	Yes	
63.6(j)	Exemption from Compliance	Yes	
63.7(a)(1)-(3)	Performance Testing Requirements	Yes	§ 63.1349 has specific requirements.
63.7(b)	Notification period	Yes	Except for repeat performance test caused by an exceedance. See § 63.1353(b)(6).
63.7(c)	Quality Assurance/Test Plan	Yes	
63.7(d)	Testing Facilities	Yes	
63.7(e)(1)	Conduct of Tests	No	See § 63.1349(e). Any reference to 63.7(e)(1) in other General Provisions or in this subpart is to be treated as a cross-reference to § 63.1349(e).
63.7(e)(2)-(4)	Conduct of tests	Yes	
63.7(f)	Alternative Test Method	Yes	
63.7(g)	Data Analysis	Yes	
63.7(h)	Waiver of Tests	Yes	
63.8(a)(1)	Monitoring Requirements	Yes	
63.8(a)(2)	Monitoring	No	§ 63.1350 includes CEMS requirements.
63.8(a)(3)		No	[Reserved].
63.8(a)(4)	Monitoring	No	Flares not applicable.
63.8(b)(1)-(3)	Conduct of Monitoring	Yes	
63.8(c)(1)-(8)	CMS Operation/Maintenance	Yes	Temperature and activated carbon injection monitoring data reduction requirements given in subpart LLL.
63.8(d)	Quality Control	Yes, except for the reference to the SSM Plan in the last sentence	

63.8(e)	Performance Evaluation for CMS	Yes	
63.8(f)(1)-(5)	Alternative Monitoring Method	Yes	Additional requirements in § 63.1350(l).
63.8(f)(6)	Alternative to RATA Test	Yes	
63.8(g)	Data Reduction	Yes	
63.9(a)	Notification Requirements	Yes	
63.9(b)(1)-(5)	Initial Notifications	Yes	
63.9(c)	Request for Compliance Extension	Yes	
63.9(d)	New Source Notification for Special Compliance Requirements	Yes	
63.9(e)	Notification of performance test	Yes	Except for repeat performance test caused by an exceedance. See § 63.1353(b)(6).
63.9(f)	Notification of VE/Opacity Test	Yes	Notification not required for VE/opacity test under § 63.1350(e) and (j).
63.9(g)	Additional CMS Notifications	Yes	
63.9(h)(1)-(3)	Notification of Compliance Status	Yes	
63.9(h)(4)		No	[Reserved].
63.9(h)(5)-(6)	Notification of Compliance Status	Yes	
63.9(i)	Adjustment of Deadlines	Yes	
63.9(j)	Change in Previous Information	Yes	
63.9(k)	Electronic reporting procedures	Yes	Only as specified in § 63.9(j).

63.10(a)	Recordkeeping/ Reporting	Yes	
63.10(b)(1)	General Recordkeeping Requirements	Yes	
63.10(b)(2)(i)- (ii)	General Recordkeeping Requirements	No	See § 63.1355(g) and (h).
63.10(b)(2)(iii )	General Recordkeeping Requirements	Yes	
63.10(b)(2)(iv )- (v)	General Recordkeeping Requirements	No	
63.10(b)(2)(vi )- (ix)	General Recordkeeping Requirements	Yes	
63.10(c)(1)	Additional CMS Recordkeeping	Yes	PS-8A supersedes requirements for THC CEMS.
63.10(c)(1)	Additional CMS Recordkeeping	Yes	PS-8A supersedes requirements for THC CEMS.
63.10(c)(2)- (4)		No	[Reserved].
63.10(c)(5)- (8)	Additional CMS Recordkeeping	Yes	PS-8A supersedes requirements for THC CEMS.
63.10(c)(9)		No	[Reserved].
63.10(c)(10)- (15)	Additional CMS Recordkeeping	Yes	PS-8A supersedes requirements for THC CEMS.
63.10(d)(1)	General Reporting Requirements	Yes	
63.10(d)(2)	Performance Test Results	Yes	
63.10(d)(3)	Opacity or VE Observations	Yes	
63.10(d)(4)	Progress Reports	Yes	
63.10(d)(5)	Startup, Shutdown, Malfunction Reports	No	See § 63.1354(c) for reporting requirements. Any reference to § 63.10(d)(5) in other General Provisions or in this subpart is to be treated as a cross-reference to § 63.1354(c).
63.10(e)(1)- (2)	Additional CMS Reports	Yes	

63.10(e)(3)	Excess Emissions and CMS Performance Reports	Yes	Exceedances are defined in subpart LLL.
63.10(e)(3)(v)	Due Dates for Excess Emissions and CMS Performance Reports	No	§ 63.1354(b)(9) specifies due date.
63.10(e)(3)(vii) and (viii)	Excess Emissions and CMS Performance Reports	No	Superseded by 63.1354(b)(10).
63.10(f)	Waiver for Recordkeeping/Reporting	Yes	
63.11(a)-(b)	Control Device Requirements	No	Flares not applicable.
63.12(a)-(c)	State Authority and Delegations	Yes	
63.13(a)-(c)	State/Regional Addresses	Yes	
63.14(a)-(b)	Incorporation by Reference	Yes	
63.15(a)-(b)	Availability of Information	Yes	

[80 FR 44791, July 27, 2015, as amended at 83 FR 35135, July 25, 2018; 83 FR 38036, Aug. 3, 2018; 85 FR 73898, Nov. 19, 2020]

**Table 2 to Subpart LLL of Part 63 - 1989 Toxic Equivalency Factors (TEFs)**

Dioxins/Furans	TEFs 1989
2,3,7,8-TCDD	1
1,2,3,7,8-PeCDD	0.5
1,2,3,4,7,8-HxCDD	0.1
1,2,3,6,7,8-HxCDD	0.1
1,2,3,7,8,9-HxCDD	0.1
1,2,3,4,6,7,8-HpCDD	0.01

OCDD	0.001
2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.05
2,3,4,7,8-PeCDF	0.5
1,2,3,4,7,8-HxCDF	0.1
1,2,3,6,7,8-HxCDF	0.1
1,2,3,7,8,9-HxCDF	0.1
2,3,4,6,7,8-HxCDF	0.1
1,2,3,4,6,7,8-HpCDF	0.01
1,2,3,4,7,8,9-HpCDF	0.01
OCDF	0.001

[83 FR 35136, July 25, 2018]

## PART IV

# STANDARD FEDERAL OPERATING PERMIT CONDITIONS

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.  
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]
2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]
3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).  
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]
4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.  
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]
5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]
6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.  
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]
7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing to determine whether cause exists for modifying, revoking and reissuing, terminating, or determining compliance with the Federal Operating Permit.  
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]
8. Owner/Operator shall furnish to qualified District, CARB or EPA personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.  
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]

9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.  
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]
10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.  
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]
11. Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.  
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]
12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that “only” Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).  
[40 CFR 70.6(f)(1)(i); Rule 1203(G)(1)]
13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.  
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]
14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations, which occurred prior to the issuance of this Federal Operating Permit.  
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]
15. This facility is not subject to any Applicable Requirement Contained in the Acid Rain Program.  
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]
16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.  
[40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]
17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan.  
[40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]
18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.  
[40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]
19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.



[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]

20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.  
[40 CFR Part 82, Subpart F]
21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.  
[40 CFR Part 82, Subpart B]
22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.  
[Section 113(a) of the Clean Air Act]

## PART V OPERATIONAL FLEXIBILITY

### OFF PERMIT CHANGES

- I. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if the Permittee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of Rule 219; and the proposed change is not:
  - (a). Subject to any requirements under Title IV of the Federal Clean Air Act [See 1203(E)(1)(c)];  
or
  - (b). A modification under Title I of the Federal Clean Air Act;  
or
  - (c). A modification subject to Regulation XIII [See 1203(E)(1)(c)];  
and
  - (d). The change does not violate any Federal, State or Local requirement, including an applicable requirement [See 1203(E)(1)(c)];  
and
  - (e). The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). [See 1203(E)(1)(c)]
  
2. Procedure for “Off Permit” Changes: If a proposed “Off Permit Change” qualifies under Part V, Section (A)(I)(A)(1) above, permittee shall implement the change as follows:
  - (a) Permittee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. [See 1203(E)(1)(c)]
  - (b) In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:
    - (i) A notification that this application is also an application for an “Off Permit” Change pursuant to this condition [See 1203(E)(1)(c)];  
and
    - (ii) A list of any new Applicable Requirements which would apply as a result of the change [See 1203(E)(1)(c)];  
and
    - (iii) A list of any existing Applicable Requirements which would cease to apply as a result of the change. [See 1203(E)(1)(c)]
  - (c) Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. [See 1203(E)(1)(c)]
  - (d) Permittee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. [See 1203(E)(1)(c)]

- (e) Permittee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate which evidences the Off Permit Change to this Title V permit. [See 1203(E)(1)(c)]
- (f) Permittee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). [See 1203(E)(1)(c)]

3. Other Requirements:

- (a) The provisions of Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.
- (b) The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. [See 40 CFR 70.4(b)(i)(B)]

[District Rules 204 and 1203]

## PART VI

# CONVENTIONS, ABBREVIATIONS, DEFINITIONS

**A. The following referencing conventions are used in this Federal Operating Permit:**

40CFR60, Standards of Performance for New Stationary Sources (NSPS)  
40CFR60, Appendix F, Quality Assurance Procedures  
40CFR61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)  
40CFR61, Subpart M, National Emission Standards for Asbestos  
40CFR72, Permits Regulation (Acid Rain Program)  
40CFR73, Sulfur Dioxide Allowance System  
40CFR75, Continuous Emission Monitoring  
40CFR75, Subpart D, Missing Data Substitution Procedures  
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures  
40CFR75, Appendix C, Missing Data Estimating Procedures  
40CFR75, Appendix D, Optional SO<sub>2</sub> Emissions Data Protocol  
40CFR75, Appendix F, Conversion Procedures  
40CFR75, Appendix G, Determination of CO<sub>2</sub> Emissions

**B. Other conventions and Definitions:**

1. Unless otherwise noted, a “day” shall be considered a 24-hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

**C. Abbreviations used in this permit are as follows:**

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horse power
Btu	British thermal units
CCR	California Code of Regulations
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
MD	Mojave Desert Air Quality Management District (formed July 1993)

SB	San Bernardino County APCD (1975 to formation of MDAQMD)
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour
hp	horse power
H&SC	California Health and Safety Code
lb	pounds
lb / hr	pounds per hour
lb / MM Btu	pounds per million British thermal units
MM Btu	million British thermal units
MM Btu/hr	million British thermal units per hour
MW	Megawatt electrical power
MW(e) net	net Megawatt electrical power
NH <sub>3</sub>	ammonia
NMOC	non-methane organic compounds
NO <sub>x</sub>	oxides of nitrogen
NO <sub>2</sub>	nitrogen dioxide
O <sub>2</sub>	oxygen
pH	pH (acidity measure of solution)
PM <sub>10</sub>	particulate matter less than 10 microns aerodynamic diameter
ppmv	parts per million by volume
psig	pounds per square inch gauge pressure
QA	quality assurance
rpm	revolutions per minute
RVP	Reid vapor pressure
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute
scfh	standard cubic feet per hour
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO <sub>x</sub>	oxides of sulfur
SO <sub>2</sub>	sulfur dioxide
tpy	tons per year
TVP	true vapor pressure

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## PART VII APPENDICES

# APPENDIX A – NSPS Subparts A, Y, and OOO and NESHAP Subparts A and LLL Requirements

### **NSPS Subpart A and Subpart Y Requirements for Coal Handling Units**

§60.252(c) Limit opacity to 20% using EPA Method 9 for opacity

§60.7(a)(4) Notify the Administrator of planned changes to the operation or equipment.

§60.7(b) Keep records of the occurrence and duration of any startup, shutdown, or malfunction in operation.

§60.11(c) The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction.

§60.11(d) At all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

<b>Table A-1: NSPS Subpart A, Y, and OOO Applicability</b>		
<b>Section</b>	<b>Description</b>	<b>CEMEX Applicability</b>
<b>NSPS Subpart A</b>	<b>General Provisions (60.1--60.19)</b>	Yes
§60.1	Applicability	Yes
§60.2	Definitions	Yes
§60.3	Units and abbreviations	Yes
§60.4	Address	Yes
§60.5	Determination of construction or modification	Yes
§60.6	Review of plan	Yes
§60.7	§60.7(a)(1) Notification of date of construction	No
	§60.7(a)(3) Notification of date of initial startup	No
	§60.7(a)(4) Notification of planned changes	Yes
	§60.7(a)(5) Notification of CMS demonstration test	No
	§60.7(a)(6) Notification of initial opacity observation date	Yes
	§60.7(b) Recordkeeping for start-up, shutdown, malfunction of affected unit or control device.	Yes
	§60.7(c) CEMS performance report and excess emission report	No
	§60.7(d) CEMS performance report and excess emission report format	No
	§60.7(e) CEMS performance report and excess emission report frequency	No
	§60.7(f) Keep all measurements records for 2 years.	Yes



<b>Table A-1: NSPS Subpart A, Y, and OOO Applicability</b>		
<b>Section</b>	<b>Description</b>	<b>CEMEX Applicability</b>
	§60.7(g) and (h) Administrative requirements relating to notification	Yes
§60.8	Initial performance tests	Yes
§60.9	Availability of information	Yes
§60.10	State authority	Yes
§60.11	§60.11(a) Compliance with standards other than opacity	No for Subpart Y Yes for Subpart OOO
	§60.11(b) Compliance with opacity standard	Yes
	§60.11(c) Exemption during startup, shutdown & malfunction periods	Yes
	§60.11(d) Maintain proper operation at all times, including during startup, shutdown, and malfunction periods	Yes
	§60.11(e) Initial opacity observation	Yes
	§60.11(f) Specific subpart requirement governs	Yes
§60.12	Circumvention	Yes
§60.13	Monitoring requirements	No
§60.14	Modification	Yes, in case of modification
§60.15	Reconstruction	Yes, in case of reconstruction
§60.18	General control device requirement (Flares)	No
§60.19	General notification and reporting requirements	Yes
<b>NSPS Subpart Y</b>	<b>Standards of Performance for Coal Preparation Plants (60.250--60.254)</b>	

<b>Table A-1: NSPS Subpart A, Y, and OOO Applicability</b>		
<b>Section</b>	<b>Description</b>	<b>CEMEX Applicability</b>
§60.250	Applicability and designation of affected facility	Yes
§60.251	Definitions	Yes
§60.252	§60.252(a) and (b) Standards for PM	No
	§60.252(c) Standards for opacity	Yes
§60.253	Monitoring of operations	No
§60.254	§60.254(a) General testing requirement	Yes
	§60.254(b)(1) Test methods and procedures for PM	No
	§60.254(b)(2) Test methods and procedures for opacity	Yes
<b>NSPS Subpart OOO</b>	<b><u>Standards of Performance for Nonmetallic Mineral Processing Plants (60.670 – 60.676)</u></b>	
§60.670	Applicability and designation of affected facility	Yes
§60.671	Definitions	Yes
§60.672	§60.672(a) standard for PM and Opacity	Yes
	§60.672(b) opacity standard for transfer points	Yes
	§60.672(c) opacity standard for crusher	Yes
	§60.672(d) truck dumping is exempted from PM and Opacity standards	Yes
	§60.672(e) opacity standard for enclosed building	No
	§60.672(f) opacity standard for baghouse vents	Yes
	§60.672(h) visible emission standard for wet screening	No
§60.674	Pressure and flow rate monitoring requirements for wet scrubber	No
§60.675	Test method and procedures for PM and opacity	Yes
§60.676	§60.676(a) equipment replacement report	Yes

<b>Table A-1: NSPS Subpart A, Y, and OOO Applicability</b>		
<b>Section</b>	<b>Description</b>	<b>CEMEX Applicability</b>
	§60.676(c) performance test and daily record keeping for wet scrubber	No
	§60.676(d) and (e) semi-annual report for wet scrubber	No
	§60.676 (f) report of all performance tests	Yes
	§60.676 (g) change in wet screening operations	No
	§60.676 (h) waiver of notification of anticipated startup date	Yes
	§60.676 (i) notification of actual startup date	Yes
	§60.676 (j) delegation of enforcement authority to a State	Yes

**NESHAP Subpart LLL Requirements for Kiln Permit Nos. B001083 and B005362 For compliance on and after September 9, 2015**

1. §63.1343(b)(1) Limit PM emissions to 0.07 lb/ton clinker for existing units. Limit PM emissions to 0.02 lb/ton clinker for new units (constructed or reconstructed after May 6, 2009).
2. §63.1343(b)(3)(i) Limit D/F emissions to 0.2 ng/dscm (TEQ) of exhaust gases @ 7% O<sub>2</sub>, or 0.4 ng/dscm (TEQ) of exhaust gases @ 7% O<sub>2</sub> for temperatures below 400 °F for existing units. Limit D/F emissions to 0.2 ng/dscm (TEQ) of exhaust gases @ 7% O<sub>2</sub>, or 0.4 ng/dscm (TEQ) of exhaust gases @ 7% O<sub>2</sub> for temperatures below 400 °F for new units (constructed or reconstructed after May 6, 2009).
3. §63.1344(a) & (b) Limit temperature at kiln baghouse inlet to values measured during D/F performance test (with raw mill on and off, respectively).
4. §63.1349(b)(1) Conduct an initial performance test for PM using EPA Method 5 . Test at the highest load or capacity reasonably expected to occur. Minimum 3 separate runs. Minimum sample volume 30 dscf. Back half is not included. Report results in lb/ton feed.
5. §63.1349(b)(3) Conduct an initial performance test for D/F using EPA Method 23. Minimum 3 separate runs. Minimum sample volume 90 dscf PM D inlet temperature must be monitored. Test with raw mill on and raw mill off, separately.
6. §63.1349(c) Repeat performance test for PM every 12 months.
  
7. §63.1349(d) Repeat performance test for D/F every 30 months.
  
8. §63.1349(e) Repeat performance test for PM, and D/F within 360 hours of initiating any significant change in the feed or fuel from that used in the previous performance test
9. §63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.
  
10. §63.1350(d) Prepare an operations and maintenance (O&M) plan.

**NESHAP Subpart LLL Requirements for Kiln Permit Nos. B001083 and B005362 For compliance on and after September 9, 2015**

11. §63.1350(g)(1) through (g)(5) Install continuous temperature monitor and recording device for baghouse inlet gas (record on three-hour average basis distinguishing between periods when the raw mill is online and offline).

12. §63.1350(g)(1)(iii) Calibrate thermocouples and/or temperature sensors every 3 months.

13. §63.1350(i) Perform annual inspection of the components of the combustion system.

14. §63.8(c) Follow requirements for CMS installation and identify out-of-control periods for temperature monitor.

15. §63.8(d) Develop a CMS QC program for temperature monitor.

16. §63.8(e) Conduct a CMS performance evaluation for the temperature monitor.

17. §63.1353(b)(2) & §63.9(e) Notify administrator of performance test at least 60 calendar days before scheduled test date.

18. §63.1353(b)(5) Notification of compliance status within 60 days after performance test completed.

19. §63.1354(b)(1) & §63.10(d)(2) Submit results of performance test within 60 days after completion of test.

20. §63.10(d)(5)(i) Submit semiannual report of all malfunctions, SSM actions consistent with SSM plan, and SSM actions not consistent with SSM plan but not resulting in excess emissions, within 30 days following the end of the semiannual period.

21. §63.10(d)(5)(ii) Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

**NESHAP Subpart LLL Requirements for Kiln Permit Nos. B001083 and B005362 For compliance on and after September 9, 2015**

22. §63.1354(b)(9) & §63.10(c) Submit semiannual summary report of gas temperature monitoring and recording device.

23. §63.1355(a) & (b), & §63.10(b) & (c) Keep records for 5 years from the date of occurrence for:

- Applicability determination
- Notifications of performance tests
- Results of performance tests
- SSM records, including actions not consistent with SSM plans
- O&M records, including discrepancies
- Temperature monitoring data
- Thermocouple calibrations
- Temperature CMS records

Semiannual reports and other reports

**NESHAP Subpart LLL Requirements for Raw Mills and Finish Mills (Permit Nos. B00045, B00047, B00049, B00051, B00053, B001093, B005192, B000083, and B001084) – For compliance on and after September 9, 2015**

1. §63.1345 Limit opacity to 10%.
2. §63.1349(b)(2) Conduct an initial performance test for opacity using EPA Method 9. The duration of the test shall be 3 hours but may be reduced to 1 hour if certain conditions are met.
3. §63.1349(c) Repeat performance test for opacity every 5 years.
4. §63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.
5. §63.1350(d) Prepare a written operations and maintenance (O&M) plan.
6. §63.1350(f) Perform daily opacity monitoring using EPA Method 22 for six minutes.
7. §63.1350(f)(1) & (f)(2) If visible emissions are observed during opacity monitoring, perform corrective actions within 1 hour according to O&M plans, followed by VE inspection using EPA Method 9 within 24 hours.
8. §63.1353(b)(3) & §63.9(f) Notify administrator of opacity test at least 30 calendar days before scheduled test date.
9. §63.1353(b)(5) Notification of compliance status within 30 or 60 days after performance test completed.
10. §63.1354(b)(2) & §63.10(d)(3) Submit results of opacity observations before 30 days following the completion of the VE/opacity observation.
11. §63.1354(b)(1)&(2), & §63.10(d)(2)&(3) Submit results of performance test and opacity observations within 60 days after completion of test.

**NESHAP Subpart LLL Requirements for Raw Mills and Finish Mills (Permit Nos. B00045, B00047, B00049, B00051, B00053, B001093, B005192, B000083, and B001084) – For compliance on and after September 9, 2015**

12. §63.10(d)(5)(i) Submit semiannual report of all malfunctions, SSM actions consistent with SSM plan, and SSM actions not consistent with SSM plan but not resulting in excess emissions, within 30 days following the end of the semiannual period.

13. §63.10(d)(5)(ii) Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

14. §63.1355(a) & (b), & §63.10(b) Keep records for 5 years from the date of occurrence for:

- Applicability determination
- Notifications of performance tests
- Results of performance tests
- SSM records, including actions not consistent with SSM plans
- O&M records, including discrepancies
- VE/opacity inspections
- Reports

**NESHAP Subpart LLL Requirements for Other Affected Sources (Permit Nos. B000004, B000007, B000009, B000011, B000059, B000066, B001092, B001280, B001287, B001288, B001480, B001482, B001484, B001486, B001640, B001683, B001784, B001788, B001954, B007633, B007785, B000085, B001672, B001673, B001674, B001675, B001676, B001677, B001678, B001679, B002709, B007336, B007340, B007364, B007709, T007339, and T007369) – For compliance on or after September 9, 2015**

1. §63.1345 Limit opacity to 10%.

2. §63.1349(b)(2) Conduct an initial performance test for opacity using EPA Method 9. The duration of the test shall be 3 hours but may be reduced to 1 hour if certain conditions are met.

3. §63.1349(c) Repeat performance test for opacity every 5 years.



**NESHAP Subpart LLL Requirements for Other Affected Sources (Permit Nos. B000004, B000007, B000009, B000011, B000059, B000066, B001092, B001280, B001287, B001288, B001480, B001482, B001484, B001486, B001640, B001683, B001784, B001788, B001954, B007633, B007785, B000085, B001672, B001673, B001674, B001675, B001676, B001677, B001678, B001679, B002709, B007336, B007340, B007364, B007709, T007339, and T007369) – For compliance on or after September 9, 2015**

4. §63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.
5. §63.1350(d) Prepare a written operations and maintenance (O&M) plan.
6. §63.1350(f) Perform 10-minute opacity monitoring using EPA Method 22 monthly, semi-annually, or annually. If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, the owner or operator must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests. If no visible emissions are observed during the semi-annual test for any affected source, the owner or operator may decrease the frequency of testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual test, the owner or operator must resume testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
7. §63.1353(b)(1) Initial notification of Subpart LLL applicability.
8. §63.1353(b)(3) & §63.9(f) Notify administrator of opacity test at least 30 calendar days before scheduled test date.
9. §63.1353(b)(5) Notification of compliance status within 30 or 60 days after performance test completed.
10. §63.1354(b)(2) & §63.10(d)(3) Submit results of opacity observations before 30 days following the completion of the VE/opacity observation.

**NESHAP Subpart LLL Requirements for Other Affected Sources (Permit Nos. B000004, B000007, B000009, B000011, B000059, B000066, B001092, B001280, B001287, B001288, B001480, B001482, B001484, B001486, B001640, B001683, B001784, B001788, B001954, B007633, B007785, B000085, B001672, B001673, B001674, B001675, B001676, B001677, B001678, B001679, B002709, B007336, B007340, B007364, B007709, T007339, and T007369) – For compliance on or after September 9, 2015**

11. §63.10(d)(5)(i) Submit semiannual report of all malfunctions, SSM actions consistent with SSM plan, and SSM actions not consistent with SSM plan but not resulting in excess emissions, within 30 days following the end of the semiannual period
12. §63.10(d)(5)(ii) Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.
13. §63.1355(a) & (b), & §63.10(b) Keep records for 5 years from the date of occurrence for:
  - Applicability determination
  - Notifications of performance tests
  - Results of performance tests
  - SSM records, including actions not consistent with SSM plans
  - O&M records, including discrepancies
  - VE/opacity inspections
  - Reports

<b>Table A-2: NESHAP Subpart LLL Applicability and Exceptions</b>			
<b>Section #</b>	<b>Section Title</b>	<b>Applicability (yes/no)</b>	<b>Exceptions?</b>
§63.1	Applicability	Yes, except	63.1(b)(1) See 63.1340
§63.2	Definitions	Yes	
§63.3	Units and Abbreviations	Yes	
§63.4	Prohibited Activities and Circumvention	Yes	
§63.5	Construction and Reconstruction	Yes	
§63.6	Compliance with Standards & Maintenance Requirements	Yes, except	63.6(h)(5) See LLL
§63.7	Performance Testing Requirements	Yes	
§63.8	Monitoring Requirements	Yes, except 63.8(c)	Data reduction per LLL
§63.9	Notification	Yes, except	63.9(f), not required per 63.1350 (e) & (j)
§63.10	Recordkeeping and Reporting	Yes	
§63.11	Control Device Requirements	No	All sections do not apply
§63.12	State Authority and Delegations	Yes	
§63.13	Addresses of State Agencies and EPA Regional Offices	Yes	
§63.14	Incorporation by Reference	Yes	
§63.15	Availability of Information and Confidentiality	Yes	
§63.1340	Applicability and Designation of Affected Sources	Yes	

<b>Table A-2: NESHAP Subpart LLL Applicability and Exceptions</b>			
<b>Section #</b>	<b>Section Title</b>	<b>Applicability (yes/no)</b>	<b>Exceptions?</b>
§63.1341	Definitions	Yes	
§63.1342	Standards: General	Yes	
§63.1343	Standards for Kilns and In-line Kiln/Raw Mills	Yes, except	63.1343(c), (d) & (e)
§63.1344	Operating Limits for Kilns and In-line Kiln/Raw Mills	Yes, except	63.1344(c), (d) & (e)
§63.1345	Standards for Clinker Coolers	Yes	
§63.1346	Standards for New and Reconstructed Raw Material Dryers	No	
§63.1347	Standards for Raw and Finish Mills	Yes	
§63.1348	Standards for Affected Sources Other than Kilns; In-line Kiln/Raw Mills; Clinker Coolers; New and Reconstructed Raw Material Dryers; and Raw and Finish Mills	Yes	
§63.1349	Performance Testing Requirements	Yes, except	63.1349(b)(3)(v) and (vi), (b)(4)
§63.1350	Monitoring Requirements	Yes, except	63.1350(c)(1), (d)(1), (g), (h) & (K)
§63.1351	Compliance Dates	Yes	
§63.1352	Additional Test Methods	Yes	
§63.1353	Notification Requirements	Yes, except	(b)(4)
§63.1354	Reporting Requirements	Yes, except	(b)(7)
§63.1355	Recordkeeping Requirements	Yes	
§63.1356	Exemption from new Source Performance Standards	Yes	

<b>Table A-2: NESHAP Subpart LLL Applicability and Exceptions</b>			
<b>Section #</b>	<b>Section Title</b>	<b>Applicability (yes/no)</b>	<b>Exceptions?</b>
§63.1357	Temporary, Conditioned Exemption from Particulate Matter and Opacity Standards	Yes	
§63.1358	Delegation of Authority	Yes	

# APPENDIX B – 40 CFR 64 Compliance Assurance Monitoring Plan (CAM Plan)

For

**CEMEX**

November 2024



**I. Background on Baghouse Controls**

Emissions Units Subject, Control Technology, Applicable Regulation, Emission Limit and Monitoring Requirements

<b>District Permits</b>	<b>Process</b>	<b>Pollutant subject to Limitation or Standard [40 CFR 64.2(a)(1)]</b>	<b>Authority for Limitation</b>	<b>Control Device District Permit</b>
B001084	Raw Mill System - No. 2	PM	District Rule 1303 - BACT	C001293
B007336	Roll Press No. 1	PM	District Rule 1303 - BACT	C007360
B007364	Roll Press No. 2	PM	District Rule 1303 - BACT	C007365
B000084	Kiln & Clinker Cooler System 1Q	PM	District Rule 1303 - BACT	C000094
B001083	Kiln & Clinker Cooler System 2Q	PM	District Rule 1303 - BACT	C001091
B005362	Q3 Kiln & Clinker Cooler System	PM	District Rule 1303 - BACT	C007368
B007709	Clinker Storage System	PM	District Rule 1303 - BACT	C008822
B000085	Clinker Loadout System, Rail Car	PM	District Rule 1303 - BACT	C001670
B001287	R/R Raw Material Reclaim System	PM	District Rule 1303 - BACT	C000005
B000053	Finish Mill (KFM11)	PM	District Rule 1303 - BACT	C002011
B001093	Finish Mill (KFM12)	PM	District Rule 1303 - BACT	C001286
B001093	Finish Mill (KFM12)	PM	District Rule 1303 - BACT	C008660
B005192	Finish Mill (KFM1)	PM	District Rule 1303 - BACT	C005196



B005192	Finish Mill (KFM1)	PM	District Rule 1303 - BACT	C005195
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Control Device District Permit	Control Device Permit Grain Loading	Permit Hourly PM-10 Limit (lb/hour)	Monitoring Requirements from Permit
C001293	0.02 grains/acf		Monthly Method 22 per Subpart LLL
C007360	0.02 grains/dscf	13.5	Monthly Method 22 per Subpart LLL
C007365	0.02 grains/dscf	16.5	Monthly Method 22 per Subpart LLL
C000094	0.01 grains/dscf	3.66	Monthly Method 22, Quarterly Inspection
C001091	0.01 grains/dscf	2.14	Monthly Method 22 per Subpart LLL
C007368	0.01 grains/dscf		Monthly Method 22 per Subpart LLL
C008822	0.01 grains/dscf	3.21	Monthly Method 22 per Subpart LLL
C001670	0.01 grains/dscf	3.43	Monthly Method 22 per Subpart LLL
C000005	0.01 grains/acf		Monthly Method 22 per Subpart LLL
C002011	0.02 grains/acf		Monthly Method 22 per Subpart LLL
C001286	0.02 grains/acf		Monthly Method 22 per Subpart LLL
C008660	0.01 grains/dscf		Monthly Method 22 per Subpart LLL
C005196	0.01 grains/dscf	2.95	Monthly Method 22 per Subpart LLL
C005195	0.01 grains/dscf	12.12	Monthly Method 22 per Subpart LLL

## II. Monitoring Approach

Indicator	<i>Differential Pressure</i>	<i>Visible Emissions</i>
Measurement Approach	The differential pressure across the control device is measured with a differential pressure gauge.	Visible emissions from the control device will be evaluated on a

		monthly basis using USEPA Method 22 procedures.
Indicator Range	An excursion is defined as a differential pressure outside the range in the Background table in Section I, above.	An excursion is defined as the presence of visible emissions.
<b>Performance Criteria</b>		
Data Representativeness	Pressure taps are located at the inlet and outlet of the control device	Measurements will be made at the emission point (exhaust) of the control device in accordance with USEPA Method 22.
Verification of Operational Status	n/a	n/a
QA/QC Practices and Criteria	The pressure gauge will be calibrated quarterly, and pressure taps will be checked daily for plugging and proper operation.	The observer of the emissions will be trained and familiar with USEPA Method 22 Procedures.
Monitoring Frequency	Pressure differential is monitored with the gauge continuously.	A 6-minute visible emission determination will be conducted in accordance with USEPA Method 22 on a monthly basis.
Data Collection Procedure	Pressure differential is manually recorded on a daily basis.	The observer of visible emission determination will document the determination in accordance with USEPA Method 22 on a monthly basis.
Averaging Period	None.	n/a

**III. Justification for Monitoring Approach:**

A. Rationale for Selection of Performance Indicators

Differential Pressure was selected as a daily (24-hour) indicator because, in general, baghouses are designed to operate at

relatively consistent range of pressure. Monitoring pressure differential provides a means of detecting changes in operation that could lead to an increase in emissions. For example, an increase in pressure differential can indicate that the cleaning system is not frequent enough, cleaning equipment is damaged, the bags are becoming blind, or the airflow has increased. Additionally, a decrease in pressure differential may indicate a broken or loose bag. Pressure differential is also a good indicator of airflow through the control device. A pressure differential maintained within the range shown in the Background table in Section I, above, indicates good performance of the control device; therefore, this is a good performance indicator.

Visible Emissions was selected as a secondary indicator on a less frequent basis (monthly), since it is indicative of good operation and maintenance of the control device. When a PM control device is operating correctly, there is no visible emissions present at the exhaust. Any detection of visible emissions at the exhaust indicates reduced performance of the control device; therefore, is a good performance indicator.

#### B. Rationale for Selection of Indicator Ranges

For the pressure differential, the indicator range selected is shown in the Background table in Section I, above. The pressure differential reading is manually recorded on a daily basis (once every 24-hour period). An excursion triggers an inspection, corrective action, and reporting requirement all of which is defined and required by permit condition on each affected control device). Additionally, as the pressure differential reading approaches either end of the range, the operator schedules the control device for maintenance and external inspection which includes leak checks, tap checks, pulsing checks, solenoid firing checks, vibration checks, mechanical checks, and doors and latches check. The pressure differential is still monitored daily, to ensure that if the control device triggers an excursion as defined as a differential pressure reading out of the ranges specified, an excursion is documented and executed as required. The District has not required a QIP threshold for this indicator.

For visible emissions, the indicator range selected is no visible emissions, verified via a USEPA Method 22 on a monthly basis. The presence of emissions triggers an excursion. An excursion outside the indicator range triggers an inspection, corrective action, and reporting requirement. An indicator range of no visible emissions was selected because any emissions detected at the exhaust of the control device is indicative of an increase in particulate emissions. Although USEPA Method 22 is generally used for fugitive emissions, the visible/no visible emissions observations can be applied to ducted emissions. The District has not required a QIP threshold for this indicator.



# APPENDIX C – SIP Rule Citations

### D. SIP Rule Citations for Mojave Desert Air Quality Management District Rules

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
Old SB	2	Definitions	SBC	MD 102	Bef 02/72	2/21/1972	40 CFR 52.2236(e)(4)(i)(A)	12/21/1978	43 FR 59489
Old SB	5 (a)	Public Availability of Emissions Data	SBC	None	Bef 02/73	7/25/1973	40 CFR 52.220(c)(2)(i)(A)	6/14/1978	43 FR 25684
RC	51	Nuisance	RC	MD 402, 07/25/1977 via Res. 94-03	Bef 02/72	2/21/1971	40 CFR 52.220(c)(7)	5/31/1977	
RC	52	Particulate Matter - Concentration		MD 405, 07/25/1977 via Res. 94-03	Bef 06/72		40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40011
Old SB	52 A	Particulate Matter - Concentration	SBC			6/19/1972	40 CFR 52.220 (c)(1-2)	9/22/1972	34 FR 19812
Old SB	53A	Specific Air Contaminants				6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
RC	53	Specific Air Contaminants				6/6/1977	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 40011
Old SB	53.2	Sulfur Recovery Units	SBC			6/30/1972	40 CFR 52.220 (c)(1-2)	9/22/1972	34 FR 19812
Old SB	53.3	Sulfuric Acid Units	SBC			6/30/1972	40 CFR 52.220 (c)(1-2)	9/22/1972	34 FR 19812
RC	54	Solid Particulate Matter, Weight	RC	MD 405, 07/25/1977 via Res. 94-03	Bef 06/72	6/30/1972	40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40111
Old SB	54A	Solid Particulate Matter, Weight	SBC	MD 405, 07/25/1977	Unknown	6/30/1972	40 CFR 52.240(a)(1)&(d)(1)(i)	1/16/1981	46 FR 3883
RC	56	Scavenger Plants	RC	None	G-73	6/6/1977	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 40011
RC	58	Disposal of Solid and Liquid Wastes	RC	MD 473, 7/25/77 via Res. 04-03	Bef 06/72		40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40011
Old SB	58 A	Disposal of Solid and Liquid Wastes	SBC	MD 473, 07/25/77	Bef 02/72		40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3883
Old SB	62.1	Sulfur Content of Natural Gas	SBC	None but See MD 431	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3883
Old SB	67	Fuel Burning Equipment	SBC	None but See MD 474 and 476	Bef 02/72		40 CFR 52.280(b)(1)(ii)(C)	6/9/1982	47 FR 25013
RC	67	Fuel Burning Equipment	RC	None but See MD 474 and 476	Bef 11/79		40 CFR 52.280(c)(1)(g)	5/18/1981	46 FR 27116
Old SB	69	Vacuum Producing Devices or Systems	SBC	Fed Reg Dec. 12/21/1994	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3886
Old SB	70	Asphalt Air Blowing	SBC	Fed Reg Dec. 10/26/1994	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3886
RC	72	Fuel Burning Equipment	RC	MD 474, 01/22/1996; MD 475 03/16/1981; and MD 476 01/22/1996 via Res. 94-03	Bef 11/79	11/19/1979	40 CFR 52.280(c)(1)(g)	5/18/1981	46 FR 27116
RC	73	Lead Content and Volatility of Gasoline	RC	None	G-73	6/6/1977	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 4001
Old SB	73	Dry Sandblasting	SBC	None	Bef 02/72	4/10/1975	40 CFR 52.220(C)(27)(v)	6/14/1978	43 FR 25684
RC	74	Vacuum Producing Devices or Systems	RC	Fed Reg Dec 12/21/1994	Bef 06/72	6/30/1972	40 CFR 52.269(b)(3)(ii)(A)		
SC	101	Title	RC	7/1/1993 via Res. 94-03	Bef 11/77	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	101	Title	SBC	7/1/1993	12/19/1998	3/26/1990	40 CFR 52.220(c)(179)(i)(B)	11/27/1990	
MD	102	Definition of Terms				8/17/2018	40 CFR 52.220(c)(520)(i)(A)(1)	7/2/2019	84 FR 31682
MD	102	Definition of Terms		9/28/2020	(SIP Sub)	3/10/2021			
MD	103	Definition of District Boundaries		6/28/1995	Current		40 CFR 52.220(c)(224)(i)(C)(2)	6/3/1999	64 FR 29790
SB	103	Definition of Terms (Unknown rule - no record except in FR reference)	SBC	None	Bef 11/77	11/4/1977	40 CFR 52.236(e)(3)(g)	1/16/1981	46 FR 3883
SC	104	Reporting of Source Data Analysis	RC			8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	104	Reporting of Source Data Analysis		12/19/1988	Current	3/26/1990	40 CFR 52.220(c)(179)(i)(B)(i)	11/27/1990	55 FR 49281
SC	106	Increments of Progress	RC	12/19/1988 via Res. 94-03	Bef 06/78	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	106	Increments of Progress		12/19/1988	Current	3/26/1990	40 CFR 52.220(c)(179)(i)(B)(i)	11/27/1990	55 FR 49281
MD	107	Certification and Emissions Statements	MD	9/14/1992	Current	11/2/1992	40 CFR 52.220(c)(190)(i)(F)(1)	5/26/2004	69 FR 29880
SC	107	Determination of Volatile Organic Compounds in Coating Material	RC		Bef 3/1/82	3/1/1982	40 CFR 52.220(c)(121)(i)(v)(B)	10/11/1983	48 FR 46046
SC	108	Alternate Emission Control Plans	RC	None		4/6/1990	40 CFR 52.220(c)(182)(i)(A)(3)	8/30/1993	58 FR 45445
SC	109	Record keeping for Volatile Organic Compound Emissions	RC	None	Bef 09/92	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(6)	4/13/1995	60 FR 18751
SC	201	Permit to Construct	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	201	Permit to Construct	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	202	Temporary Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	202	Temporary Permit to Operate	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	203	Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	203	Permit to Operate	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	204	Permit Conditions	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	204	Permit Conditions	SBC	7/25/1977	G-73				
SC	205	Cancellation of Application	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	205	Cancellation of Application	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	206	Posting of Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	206	Posting of Permit to Operate	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	207	Altering or Falsifying of Permit	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	207	Altering or Falsifying of Permit	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	208	Permit for Open Burning	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	208	Permit for Open Burning	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	209	Transfer and Voiding of Permit	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	209	Transfer and Voiding of Permit	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	11/9/1978	43 FR 52237
SC	212	Standards for Approving Permits	RC	7/25/1977 via Res. 94-03	5/1/1987	6/9/1987	40 CFR 52.220(c)(173)(i)(A)(1)	2/3/1989	54 FR 5448
SB	212	Standards for Approving Permits	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	217	Provision for Sampling and Testing Facilities	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	217	Provision for Sampling and Testing Facilities	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237

MDAQMD Federal Operating Permit #100005  
CEMEX Construction Materials Pacific LLC – River Plant and Black Mountain Quarry Plant  
Current Revision: November 21, 2024

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
SC	218	Stack Monitoring	RC	7/25/1977 via Res 94-03	Bef 10/81	10/23/1981	40 CFR 52.220(c)(103)(viii)(A)	7/6/1982	47 FR 29231
SO	218	Stack Monitoring	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SB	219	Equipment Not Requiring a Written Permit	SBC	1/28/2019	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	219	Equipment Not Requiring a Written Permit Pursuant to Regulation II	RC	1/28/2019	9/4/1981	10/23/1981	40 CFR 52.220(c)(103)(viii)(A)	7/6/1982	47 FR 29231
MD	219	Equipment Not Requiring a Written Permit	MD	1/25/2021	(SIP Sub)	7/22/2021			
SC	220	Exemption, Net Increase in Emissions	RC	11/25/1991 via Res 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(viii)(A)	7/6/1982	47 FR 29231
SC	221	Plans	RC	None	1/4/1985	11/12/1985	40 CFR 52.220(c)(165)(i)(B)(1)	4/17/1987	52 FR 12522
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	2/21/1994	3/31/1995	40 CFR 52.220(c)(216)(i)(A)(2)	2/5/1996	61 FR 4217
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	(SIP Sub)	6/21/2011			
MD	222	Limitation on Potential to Emit	MD	2/28/2011	7/3/1995	10/13/1995	40 CFR 52.220(c)(225)(i)(H)(1)	8/31/2004	69 FR 53005
MD	222	Limitation on Potential to Emit	MD	2/28/2011	(SIP Sub)	6/21/2011			
SC	301.2	Fee Schedules	RC	None	6/3/1983	7/19/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
MD	315	Federal Clean Air Act Section 185 Penalty	MD	10/24/2011	(SIP Sub)	12/14/2011			
SC	401	Visible Emissions	RC	8/26/2019	4/7/1989		40 CFR 52.220(c)(155)(iv)(B)	1/29/1985	50 FR 3906
MD	401	Visible Emissions	MD	8/26/2019	Sip Sub				
SB	403	Fugitive Dust	SBC		G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
SC	403	Fugitive Dust				8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	403	Fugitive Dust		9/28/2020					
MD	403.1	Respirable Particulate Matter in SVPA			11/25/1996	3/3/1997	40 CFR 52.220(c)(224)(i)(C)(2)	8/13/2009	74 FR 40750
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res 94-03	10/5/1979	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res 94-03	10/5/1979	2/3/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
SB	404	Particulate Matter - Concentration	SBC	7/25/1977	Current	11/4/1977	40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 52489
SC	405	Solid Particulate Matter, Weight	RC	7/25/1977 via Res 94-03	5/7/1976	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	405	Solid Particulate Matter, Weight	SBC	7/25/1977	Current	11/4/1977	40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 59489
SC	406	Specific Contaminants	SBC	2/20/1979	7/25/1977		40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 59489
SC	407	Liquid and Gaseous Air Contaminants	RC	7/25/1977 via Res 94-03	4/2/1982	8/6/1982	40 CFR 52.220(c)(124)(iv)(A)	11/10/1982	47 FR 50864
SB	407	Liquid and Gaseous Air Contaminants	SBC	7/25/1977	G-73		40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	408	Circumvention	RC	7/25/1977 via Res 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	408	Circumvention	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	409	Combustion Contaminants	RC	7/25/1977 via Res 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(viii)(A)	7/6/1982	47 FR 29231
SB	409	Combustion Contaminants	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SB	431	Sulfur Content of Fuels	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
MD	431	Sulfur Content of Fuels	MD	9/28/2020	(SIP Sub)	6/10/2021			
SB	431	Sulfur Content of Fuels	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
SC	431.1	Sulfur Content of Gaseous Fuels	RC	See MD 431	5/6/1983	7/19/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
SC	431.2	Sulfur Content of Liquid Fuels	RC	See MD 431	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	431.3	Sulfur Content of fossil Fuels	RC	See MD 431	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	432	Gasoline Specifications		7/25/1977 via Res 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	432	Gasoline Specifications	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
MD	442	Usage of Solvents	MD	2/27/2006	Current	10/5/2006	40 CFR 52.220(c)(347)(i)(C)(1)	9/17/2007	72 FR 52791
SC	443	Labeling of Solvents	RC	7/25/1977 via Res 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	443	Labeling of Solvents				6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	444	Open Fires		9/25/2006	Current	5/8/2007	40 CFR 52.220(c)(350)(B)(1)	10/31/2007	72 FR 61525
MD	461	Gasoline Transfer and Dispensing	MD			7/13/1994	40 CFR 52.220(c)(198)(i)(B)(1)	5/3/1995	60 FR 21702
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(i)(A)(3)	5/1/2020	85 FR 25293
MD	462	Organic Liquid Loading	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(i)(A)(4)	5/1/2020	85 FR 25293
MD	463	Storage of Organic Liquids	MD	1/22/2018	Current	5/18/2018	40 CFR 52.220(c)(518)(i)(A)(5)	5/1/2020	85 FR 25293
MD	464	Oil Water Separators		6/12/2014	Current	11/16/2014	40 CFR 52.220(c)(457)(i)(B)(1)	6/5/2015	80 FR 32026
SC	465	Vacuum Producing Devices or Systems	RC	Rescinded & Fed Neg Dec 12/21/1994	Bef 5/91	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35759
MD	465	Vacuum Producing Devices or Systems (Rescinded)	MD	Rescinded & Fed Neg Dec 12/21/1994	Not SIP	12/29/1994	40 CFR 52.222(a)(1)(iii)	9/11/1995	60 FR 47074
SC	466	Pumps and Compressors	RC	Rescinded & See 1102 10/26/94	Bef 12/83	12/2/1983	40 CFR 52.220(c)(166)(i)(A)(1)	1/15/1987	52 FR 1627
MD	466	Pumps and Compressors (Rescinded)	MD	Rescinded & See 1102 10/26/94	Not SIP	11/30/1994	40 CFR 52.220(c)(39)(ii)(G)	8/19/1999	64 FR 45175
SC	466.1	Valves and Flanges	RC	None	5/2/1980	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	468	Sulfur Recovery Units	RC	7/25/1977 via Res 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	468	Sulfur Recovery Units	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	469	Sulfuric Acid Units	RC	7/25/1977 via Res 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	469	Sulfuric Acid Units		7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)		
MD	471	Asphalt Roofing Operations		12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(210)(i)(C)(2)	2/29/1996	61 FR 7706
SC	472	Reduction of Animal Matter	RC	7/25/1977 via Res 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	472	Reduction of Animal Matter	SBC	7/21/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	473	Disposal of Liquid and Solid Wastes	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25/1997	Bef 11/96	11/26/1996	40 CFR 52.220(c)(254)(i)(B)(1)	1/11/1999	64 FR 1517
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25/1997	Current	3/10/1998	??	??	??
MD	475	Electric Power Generating Equipment	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(254)(i)(B)(1)	1/11/1999	64 FR 1517

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MD	476	Steam Generating Equipment	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
SB	480	Natural Gas Fired Control Devices	SEC	2/20/1979	Current	5/23/1979	40 CFR 52.220(c)(51)(iii)(A)	1/27/1981	46 FR 8471
SC	481	Spray Coating Operations	RC	1113, 1114, 1115 & 1116	5/5/1978	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	501	General	RC	6/10/2019	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	900	Standards of Performance for New Stationary Sources	MD	2/25/2019	Delegated				
MD	1000	National emissions Standards for Hazardous Air Pollutants	MD	2/25/2019	Delegated				
SC	1101	Secondary Lead Smelters/Sulfur Oxides (SC Adopted 10/7/77)	RC	None	4/4/1980	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	1102	Petroleum Solvent Dry Cleaners (SC Amended 12/7/90)	RC	None	12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
MD	1102	Fugitive Emissions of VOCs from Components at Pipeline Transfer Stations	MD	10/26/1994	Current	11/30/1994	40 CFR 52.220(c)(207)(g)(D)	9/27/1995	60 FR 49772
SC	1102.1	Perchloroethylene Dry Cleaning Systems	RC	None	12/7/1990	5/31/1991	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
SC	1103	Pharmaceuticals and Cosmetics Manufacturing Operation	RC	None	4/6/1980	4/23/1980	40 CFR 52.220(c)(69)(iii)	7/8/1982	47 FR 29668
MD	1103	Cutback and Emulsified Asphalt	MD	12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(207)(g)(C)(1)	2/5/1996	61 FR 4215
		Wood Flat Stock Coating Operations (SC Amended 8/2/91)		None	3/1/1991	10/25/1991	40 CFR 52.220(c)(186)(i)(C)(1)	6/23/1994	59 FR 32354
MD	1104	Organic Solvent Degreasing Operations	MD	4/23/2018	Current	7/16/2018	40 CFR 52.220(c)(519)(i)(A)(1)	7/2/2019	84 FR 31682
SC	1105	Fluid Catalytic Cracking Units Oxides of Nitrogen (SC Adopted 9/8/84)	R/	None	9/8/1984	2/6/1985	40 CFR 52.220(c)(159)(v)(C)	7/12/1990	55 FR 28625
MD	1106	Manne & Pleasure Craft Coating Operations	MD	10/24/2016	Current	Alt 10/2016	40 CFR 52.220(c)(498)(i)(B)(1)	2/12/2018	83 FR 5940
SC	1107	Miscellaneous Metal Parts, Products and Coatings Operations	RC	None	9/6/1991	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66285
SC	1108	Cutback Asphalt	RC	None	2/1/1985	4/12/1985	40 CFR 52.220(c)(160)(i)(E)(1)	7/12/1990	55 FR 28624
SC	1108.1	Emulsified Asphalt	RC	None	Bef 3/84	3/14/1984	40 CFR 52.220(c)(153)(iii)(A)	1/24/1985	50 FR 3339
SC	1110	Emissions from Stationary Internal Combustion Engines	RC	None	Bef 3/82	3/1/1982	40 CFR 52.220(c)(121)(i)(C)	4/3/1984	47 FR 18822
SC	1111	NOx Emissions from Natural Gas Fired, Fan Type Central Furnaces	RC	None	Bef 10/83	10/27/1983	40 CFR 52.220(c)(148)(vi)(A)	5/3/1984	49 FR 18830
SC	1112	Emissions of Oxides of Nitrogen from Cement Kilns	RC	None	1/6/1984	4/12/1984	40 CFR 52.220(c)(154)(vi)(B)	1/7/1986	51 FR 600
SC	1113	Architectural Coatings	RC	None	Bef 7/84	7/10/1984	40 CFR 52.220(c)(155)(iv)(A)	1/24/1985	50 FR 3339
MD	1113	Architectural Coatings	MD	4/23/2012	4/23/2012	2/6/2013	40 CFR 52.220(c)(428)(i)(C)(1)	1/3/2014	79 FR 365
MD	1113	Architectural Coatings	MD	10/26/2020	(SIP Sub)	10/10/2021			
MD	1114	Wood Products Coating Operations	MD	8/24/2020	Current	11/18/2020	40 CFR 52.220(c)(558)(i)(a)(1)	7/28/2021	86 FR 40335
SC	1115	Motor Vehicle Assembly and Component Coating Operations	RC	None	3/6/1992	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(1)	12/20/1993	58 FR 66282
MD	1115	Metal Parts & Products Coating Operations				5/23/2018	40 CFR 52.220(c)(518)(i)(A)(2)	2/27/2020	85 FR 11812
MD	1115	Metal Parts & Products Coating Operations	MD	6/8/2020	(SIP Sub)	5/23/2018		5/20/2021	86 FR 27341
MD	1116	Automotive Refinishing Operations	MD	8/23/2010	Current	4/5/2011	40 CFR 52.220(c)(388)(i)(F)(1)	8/19/2012	77 FR 47536
SC	1117	Emissions of Oxides of Nitrogen from Glass Melting Furnaces	RC	None	SC 1/6/1984	12/3/1984	40 CFR 52.220(c)(159)(v)(D)	7/12/1990	55 FR 28624
MD	1117	Graphic Arts	MD	7/20/2010		3/1/2010	40 CFR 52.220(c)(381)(i)(H)(1)	3/1/2012	77 FR 12495
MD	1117	Graphic Arts	MD	8/24/2020	(SIP Sub)	11/17/2020			
MD	1118	Aerospace Vehicle Parts & Products Coating Operations	MD	6/8/2020	(SIP Sub)	4/21/2016	40 CFR 52.220(c)(485)(i)(B)(1)	6/21/2017	82 FR 28240
MD	1118	Aerospace Assembly, Repair and Component Manufacturing Operations	MD	6/8/2020	(SIP Sub)	11/17/2020			
SC	1119	Petroleum Coke Calcining Operations Oxides of Sulfur	RC	None	3/2/1979	7/25/1980	40 CFR 52.220(c)(88)(iii)(A)	9/28/1981	46 FR 47451
SC	1120	Asphalt Pavement Heaters	RC	None	8/4/1978	7/25/1980	40 CFR 52.220(c)(65)(ii)	9/28/1981	46 FR 47451
SC	1121	Control of Nitrogen Oxides from Residential Type Natural Gas Fired Water Heaters			12/1/1978	4/2/1980	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1122	Solvent Metal Cleaners (Degreasers)		None	7/8/1983				
SC	1123	Refinery Process Turnaround	RC	None	SC 12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35758
SC	1124	Aerospace Assembly and Component Coating Operations	RC	None	1/6/1984	4/19/1984	40 CFR 52.220(c)(154)(vi)(A)	1/24/1985	50 FR 3339
SC	1125	Metal Container, Closure and Coil Coating Operations	RC	None	SC 8/2/1991	5/13/1993	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17898
SC	1126	Magnet Wire Coating Operations	RC	None	SC 3/6/1992	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(2)	12/20/1993	58 FR 66286
MD	1126	Municipal Solid Waste Landfills	MD	8/28/2000	Not SIP	12/20/200	40 CFR 60.23		
SC	1128	Paper, Fabric and Film Coating Operations	RC	None	SC 2/7/1992	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66287
SC	1130	Graphic Arts	RC	None	Bef 5/1993	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(2)	4/14/1994	59 FR 17698
SC	1136	Wood Furniture and Cabinet Coatings	RC	None	Bef 5/92	5/13/1992	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17698
SC	1140	Abrasive Blasting	RC	None	2/1/1980	4/21/1980	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1141	Control of Volatile Organic Compound Emissions from Resin Manufacturing	RC	None	SC 4/3/1992	9/19/1992	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66286
SC	1141.1	Coatings and Ink Manufacturing	RC	None	11/4/1983	3/14/1984	40 CFR 52.220(c)(153)(vi)(B)	1/24/1985	50 FR 3339
SC	1141.2	Surfactant Manufacturing	RC	None	SC 7/6/1984	10/19/1984	40 CFR 52.220(c)(156)(vi)(A)	1/15/1987	52 FR 1627
SC	1142	Marine Tank Vessel Operations	RC	None		1/28/1992	40 CFR 52.220(c)(187)(i)(C)(1)		
SC	1145	Plastic, Rubber and Glass Coatings	RC	None	SC 1/10/1992	1/11/1993	40 CFR 52.220(c)(191)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1148	Thermally Enhanced Oil Recovery Wells	RC	None	Bef 10/1983	10/27/1983	40 CFR 52.220(c)(148)(vi)(B)	??	??
SC	1151	Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations	RC	None	Bef 5/13/1993	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1153	Commercial Bakery Ovens	RC	None	SC 1/4/1991	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(3)	9/29/1993	58 FR 50850
MD	1157	Boilers and Process Heaters	MD	1/22/2018	5/19/1997	8/1/1997	40 CFR 52.220(c)(248)(i)(D)	4/20/1999	64 FR 19277
MD	1157	Boilers and Process Heaters	MD	1/22/2018	(SIP Sub)	5/23/2018			
SC	1158	Storage, Handling and Transport of Petroleum Coke	RC	None	SC Bef 5/93	3/14/1984	40 CFR 52.220(c)(153)(vi)(B)	1/15/1987	52 FR 1627
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	8/25/1997	3/10/1998	40 CFR 52.220(c)(254)(i)(H)(2)	7/20/1999	64 FR 38832
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	(SIP Sub)	11/13/2017			
SC	1159	Nitric Acid Units - Oxides of Nitrogen	RC	None	SC 12/6/1985	2/10/1986	40 CFR 52.220(c)(168)(D)(H)	7/12/1990	55 FR 28622
MD	1159	Stationary Gas Turbines	MD	9/28/2009	Current	5/17/2010	40 CFR 52.220(c)(379)(i)(E)(1)	10/25/2012	77 FR 65133



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MD	1160	Internal Combustion Engines	MD	1/22/2018	Current	5/23/2018	40 CFR 52.220(c)(518)(i)(A)(7)	9/10/2021	86 FR 50643
MD	1161	Portland Cement Kilns	MD			6/18/2002	40 CFR 52.220(c)(300)(i)(A)(1)	2/27/2003	68 FR 9015
MD	1161	Portland Cement Kilns	MD	1/22/2018	(SIP Sub)	5/23/2018			
MD	1162	Polyester Resin Operations	MD	1/22/2018	8/27/2007	3/7/2008	40 CFR 52.220(c)(354)(i)(B)(1)	11/24/2008	73 FR 70883
MD	1162	Polyester Resin Operations	MD	1/22/2018	Current	5/23/2018	40 CFR 52.220(c)(519)(i)(A)(1)	2/27/2020	85 FR 11812
SC	1164	Semiconductor Manufacturing Operations	RC	None	Be f 10/1993			10/26/1993	58 FR 48459
MD	1165	Glass Melting Furnaces	MD	8/12/2008	Current	12/23/2008	40 CFR 52.220(c)(364)(i)(D)(1)	7/2/2012	77FR 39181
MD	1168	Adhesive & Sealant Applications	MD	4/27/2020	(SIP Sub)	7/23/2020			
SC	1171	Solvent Cleaning	RC	None	SC 8/2/1991	6/19/1992	40 CFR 52.220(c)(188)(i)(C)(1)	12/20/1993	58 FR 66285
SC	1173	Fugitive Emissions of Volatile Organic Compounds	None	None	12/7/1990	6/18/1992	40 CFR 52.220(c)(188)(i)(C)(1)	12/20/1993	58 FR 66285
SC	1175	Control of Emissions from the Manufacture of Polymeric Cellular (Foam) Products	RC	None	SC Be f 5/91	??	40 CFR 52.220(c)(182)(8)(A)(1)	??	??
SC	1176	Sumps and Wastewater Separators	RC	None	Be f 12/1990	12/31/1990		10/26/1992	57 FR 48459
MD	1200	General (Federal Operating Permit)	MD	2/28/2011					
MD	1201	Definitions (Federal Operating Permit)	MD	9/26/2005					
MD	1202	Applications	MD	9/26/2005					
MD	1203	Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1205	Modifications of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1206	Reopening, Reissuance and Termination of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1207	Notice and Comment (Federal Operating Permit)	MD	9/26/2005					
MD	1208	Certification (Federal Operating Permit)	MD	9/26/2005					
MD	1209	Appeals (Federal Operating Permit)	MD	9/26/2005					
MD	1210	Acid Rain Provisions of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1211	Greenhouse Gas Provisions of Federal Operating Permits (Federal Operating Permit)	MD	2/28/2011					
MD	1300	General	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1300	General	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1301	Definitions	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1301	Definitions	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1302	Procedure	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1302	Procedure	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1303	Requirements	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Requirements	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1304	Emissions Calculations	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Emissions Calculations	MD		(SIP Sub)	7/22/2021			
MD	1305	Emissions Offsets	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1305	Emissions Offsets	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	1306	Electric Energy Generating Facilities			3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1306	Electric Energy Generating Facilities		3/22/2021	(SIP Sub)	7/22/2021			
MD	1310	Federal Major Facilities and Federal Major Modifications		Rescinded 3/22/21	(SIP Sub)	7/22/2021			
MD	1400	General (Emission Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1401	Definitions (Emission Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1402	Emission Reduction Credits Registry	MD	6/28/1995	6/28/1995	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1404	Emission Reduction Credit Calculations	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1520	Control of Toxic Air Contaminants From Existing Sources	MD	3/25/2019	(SIP Sub)				
MD	1600	Prevention of Significant Deterioration	MD	3/22/2021	(SIP Sub)	7/22/2021			
MD	2001	Transportation Conformity	MD	2/22/1995	??				
MD	2002	General Federal Actions Conformity	MD	10/26/1994	Current	5/10/1996	40 CFR 52.220(c)(231)(i)(C)(1)	4/23/1999	64 FR 19916
MD	FND	Fed. Neg. Dec. - Asphalt Air Blowing	MD		Current	12/20/1994	40 CFR 52.222(a)(1)(ii)	9/11/1995	60 FR 47074
MD	FND	Fed. Neg. Dec. - Air Oxidation Process - SOxMI	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	RC	5/25/1994 via Res. 94-03	Unknown				
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	SBC	5/25/1994	Current	12/29/1994		1/31/1995	60 FR 38
MD	FND	Fed. Neg. Dec. - Equipment Leaks from Natural Gas/Gasoline Processing Plants	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Fugitive Emissions From Synthetic Organic chemical Polymer and Resin manufacturing Equipment	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Industrial Wastewater	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Large Petroleum Dry Cleaners	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Leaks from Petroleum Refinery Equipment	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Manufacture of High-Density Polyethylene, Polypropylene, and Polystyrene Resins	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	RC	5/25/1994 via Res. 94-03	Unknown				
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	SBC	5/25/1994	Current	7/13/1994	40 CFR 52.222(a)(1)(g)	1/31/1995	60 FR 38
MD	FND	Fed. Neg. Dec. - Offset Lithography	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Orchard & Citrus Heaters	MD	6/24/1996	??				
MD	FND	Fed. Neg. Dec. - Petroleum Refinery Equipment	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153

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MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (Business Machines)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(v)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (other)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(v)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Pneumatic Rubber Tire Manufacturing	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Polymer Manufacturing SOGMI and Polymer manufacturing Equipment Leaks	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Process Unit Turnarounds	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Reactor Processes and Distillation Operations in SOGMI	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Ship Building	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(v)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Surface Coating of Cans	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Coils	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Fabrics	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Large Appliances	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Magnet Wire	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating Operations at Automotive and Light Duty Truck Assembly Plants	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Synthesized Pharmaceutical Products	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Batch Processing	MD		Current	8/7/1995	40 CFR 52.222(a)(1)(v)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Industry	MD		Current	8/7/1995	40 CFR 52.222(a)(1)(v)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Reactors	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(v)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Polymer and Resin Manufacturing	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Vacuum Producing Devices	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - 2 CTGs for Miscellaneous Metal and Plastic Parts Coatings, Table 3—Plastic Parts and Products, and Table 4—Automotive/Transportation and Business Machine Plastic Parts	MD	4/23/2018	Current	7/16/2018	40 CFR 52.220(c)(519)(ii)(A)(1) and 52.222(a)(1)(viii)	2/27/2020	85 FR 11812
MD	FND	Fed. Neg. Dec. - 1 CTG for Miscellaneous Metal and Plastic Parts Coatings (EPA-453/R-08-003), Table 6—Motor Vehicle Materials	MD	10/22/2018	Current	12/7/2018	40 CFR 52.220(c)(531)(ii)(A)(1) and 52.222(a)(1)(ix)	2/27/2020	85 FR 11812
MD	Title V	Program - Federal Operation Permits: Title V					40 CFR 70 App. A California (q)(2)	12/17/2001	66 FR 63503