Federal Operating Permit

Permit No.: **100005**

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

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

Issue date: **Jan 25, 2017**

Expiration date: **Jan 25, 2022**

Mojave Desert Air Quality Management District

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Signed and issued by

Brad Poiriez

Executive Director/
Air Pollution Control Officer

PERMIT REVISIONS

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 he 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)

Feb 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:

Owner/Company Name:	CEMEX Construction Materials Pacific LLC
Owner Mailing Address:	CEMEX Construction Materials Pacific LLC 16888 North "E" Street Victorville, California 92394-2999
Facility Name:	CEMEX Construction Materials Pacific LLC
Facility Location(s):	River Plant – Victorville Black Mountain Quarry Facility - Apple Valley
MDAQMD Federal Operating Permit Number:	100005
MDAQMD Company Number:	0001
MDAQMD Facility Number:	00005 and 00006
Responsible Official:	Cesar Millan
Title:	Plant Manager
Phone Number:	(760) 381-7691
Facility "Site" Contacts:	Alejandra V Silva
Title:	Environmental Manager
Phone Number:	(760) 381-7629 office (714) 515-2406 mobile (760) 951-3488 facsimile
Facility "Off Site" Contacts:	None Provided
Nature of Business:	Manufacturing Clinker for Cement
SIC Code:	3241 Cement Manufacturing
Facility Location:	UTM (km) 3831 N / 491 E

B. DESCRIPTION OF FACILITY:

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 effected 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.

CEMEX - River Plant

Permit #	Permit Status	Permit Type	Permit Desc.
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
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	AIR POLLUTION CONTROL EQUIPMENT (JBH 11)
C000005	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (JBH 1)
C000006	PTO	Air Pollution Control Device	BAGHOUSE (JBH 2)
C000046	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 7)

C000048	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 8)
C000050	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 9)
C000052	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 10)
C000054	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 13)
C000055	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 15)
C000056	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (KBH 11)
C000057	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (JBH 14)
C000058	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (JBH 15)
C000060	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (LBH 1)
C000061	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (LBH 2)
C000062	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (LBH 3)
C000063	PTO	Air Pollution Control Device	BAGHOUSE (LBH 4)
C000065	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (LBH 6)
C000068	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (MBH 2)
C000071	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (MBH 5)
C000075	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (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	AIR POLLUTION CONTROL EQUIPMENT (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	AIR POLLUTION CONTROL EQUIPMENT (KBH 14)
C002012	PTO	Air Pollution Control Device	AIR POLLUTION OCNTROL 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 LBH12
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
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 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	AIR POLLUTION CONTROL EQUIPMENT (DBH3)
C000092	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 6)
C000093	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 17)
C000094	PTO	Air Pollution Control Device	BAGHOUSE (FBH1)
C000095	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH1)
C001090	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (GBH2)
C001091	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (GGF 2)
C001290	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (CBH1)
C001291	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (CBH2)
C001292	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH5)
C001293	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH2)
C001294	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH3)
C001295	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH4)
C001296	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH4)
C001297	PTO	Air Pollution Control Device	BAGHOUSE (HBH1A)

C001298	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 2)
C001299	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH 5)
C001300	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 19)
C001301	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 3)
C001302	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 4)
C001303	PTO	Air Pollution Control Device	BAGHOUSE (HBH1B)
C001308	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 18)
C001660	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 20)
C001667	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (DBH1)
C001668	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (EBH2)
C001669	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (HBH 22)
C001670	PTO	Air Pollution Control Device	BAGHOUSE (HBH 21)
C002081	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT
C002082	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT
C002710	PTO	Air Pollution Control Device	AIR POLLUTION CONTROL EQUIPMENT (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
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 - FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

*A. **REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:***

1. A permit is required to operate this facility. [Rule 203]

2. The equipment at this facility shall not be operated contrary to the conditions specified in the District Permit to Operate. [Rule 203]

3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit. [Rule 204]

4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified. [Rule 204]

5. Posting of the Permit to Operate is required on or near the equipment or as otherwise approved by the APCO/District. [Rule 206]

6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules. [Rule 207]

7. Permits are not transferable. [Rule 209]

8. The APCO may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing. [Rule 217]

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. [Rule 219]

10. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility. [Rule 221]

11. Owner/Operator shall pay all applicable MDAQMD permit fees. [Rule 301]

12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees. [Rule 312]

13. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
    (a) While any unit is fired on Public Utilities Commission (PUC) grade natural gas, Periodic Monitoring for combustion equipment is not required to validate

compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount, and suppliers' certification information.

(b) While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:

(i). Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation, a visible emissions inspection is required every three (3) months or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3-month time frame.

(ii). Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.

(iii). Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5-year period.

(iv). On any of the above, if a visible emissions inspection documents opacity, an U.S. Environmental Protection Agency (EPA) Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame. [Rule 204; Rule 401; 40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

14. Owner/Operator is limited to use of the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 800 parts per million (ppm) calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limits is assumed for PUC quality natural gas fuel and CARB certified diesel fuel. Records shall be kept on-site and available for review by District, state, or federal personnel at any time. The sulfur content of non-CARB certified diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82 or ASTM method D 2880-71, or equivalent.
[Rule 431; 40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

15. 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. [Rule 403]

16. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an "Alternative PM_{10} Control Plan" (ACP) pursuant to Rule 403.2(G) has been approved. [Rule 403.2]

17. 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 liquid or gaseous 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.
[Rule 404]

18. Owner/Operator shall not discharge into the atmosphere from 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.
[Rule 405]

19. Owner/Operator shall not discharge into the atmosphere from this facility, 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_2), greater than or equal to 500 ppm by volume. [Rule 406]

20. 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.
[Rule 407]

21. 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.
[Rule 408]

22. 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_2) at standard conditions averaged over a minimum of 25 consecutive minutes. [Rule 409]

23. 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 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.

(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.

[Rule 430]

24. 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 this rule, 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 trichlorotrifluroethane.

(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]

25. 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 (reference Rule 444(B)(10)).
[Rule 444]

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

(a) Rule 442 Applicability: Any solvent using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the volatile organic compound (VOC) limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.

(b) Solvent Usage Records. Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:
(1) 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:
(i) product name(s) used in the degreaser, and
(ii) the mix ratio of solvent compounds mixtures of solvents are used, and
(iii) VOC content of solvent or mixture of compounds as used, and
(iv) the total volume of the solvent(s) used for the facility, on a monthly basis, and
(v) the name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.

(2) Documentation shall be maintained on site of the disposal or on-site

recycling of any waste solvent or residues.

(3) 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 (Reference Rule 1203(D)(1)(d)(ii)).

[Rule 1104]

27. Owner/Operator's use of Architectural Coatings at this facility shall comply with the applicable requirements of Rule 1113, including the VOC limits specified in Rule 1113, part C, Table of Standards, as listed below:

MDAQMD Rule 1113, Table 1

Coating Category	**Effective 1 January 2013 VOC Grams/Liter**
Primary Coatings	
Flat Coatings	50
Nonflat Coatings	100
Nonflat-High Gloss Coatings	150
Specialty Coatings	
Aluminum Roof Coatings	400
Basement Specialty Coatings	400
Bituminous Roof Coatings	50
Bituminous Roof Primers	350
Bond Breakers	350
Concrete Curing Compounds	350
Concrete/Masonry Sealers	100
Driveway Sealers	50
Dry Fog Coatings	150
Faux Finish Coatings	350
Fire Resistive Coatings	350
Floor Coatings	100
Form-Release Compounds	250
Graphic Arts Coatings (Sign Paints)	500
High Temperature Coatings	420
Industrial Maintenance Coatings	250
Low Solids Coatings	120[a]
([a]: Limit is expressed as VOC Actual)	
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 Penetrative Coatings	250
Shellacs:	
Clear	730

Opaque	550
Specialty Primers, Sealers, and Undercoaters	100
Stains	250
Stone Consolidants	450
Swimming Pool Coatings	340
Traffic Marking Coatings	100
Tub and Tile Refinish Coatings	420
Waterproofing Membranes	250
Wood Coatings	275
Wood Preservatives	350
Zinc-Rich Primers	340

[Rule 1113]

28. 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, part C, Table of Standards, as listed below:

(1) VOC Content of Coatings & Adhesives

(a) Any Owners and/or Operators of Wood Products Coating Application Operations shall not apply any Coating or Adhesive to a Wood Product which has a VOC Content, including any VOC-containing material added to the original Coating supplied by the manufacturer, which exceeds the applicable limit specified below, unless emissions to the atmosphere are controlled by air pollution abatement equipment with an Overall Control Efficiency of at least 85 percent. Any Coating subject to this rule that meets either of the two VOC Content limit formats (grams per liter or pounds per gallon [lb/gal]) is in compliance with this subsection.

(i) LIMITS

Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	Current Limit g/L (lb/gal)	On and After 7/1/97		On and After 7/1/2005
		Column I or g/L (lb/gal)	Column II g/L (lb/gal)	g/L (lb/gal)
Clear Sealers	680 (5.7)	550 (4.6)	680 (5.7)	275 (2.3)
Clear Topcoat	680 (5.7)	550 (4.6)	275 (2.3)	275 (2.3)
Pigmented Primers, Sealers and Undercoats	600 (5.0)	550 (4.6)	600 (5.0)	275 (2.3)
Pigmented Topcoats	600 (5.0)	550 (4.6)	275 (2.3)	275 (2.3)

Effective July 1, 1997, a person or facility shall use Coatings on Wood Products that comply with either all VOC Content limits in Column I or all VOC Content limits in Column II. A person or facility that applies a Pigmented Primer, Sealer or Undercoat, but not a Clear Topcoat or Pigmented Topcoat, to a Wood Product shall be subject to column I for that product.

(ii) Notwithstanding the requirements of subsection (C)(1)(a)(i), a person or facility that applies a topcoat and a primer, sealer or undercoat to a Shutter may, until July 1, 2005, choose to comply with the VOC Content limits specified below for that Shutter:

(b) LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	g/L (lb/gal)
Clear Sealers	275 (2.3)
Clear Topcoat	680 (5.7)
Pigmented Primers, Sealers & Undercoats	275 (2.3)
Pigmented Topcoats	600 (5.0)

(c) LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	Current Limit g/L (lb/gal)	On and After 7/1/97 g/L (lb/gal)	On and After 7/1/2005 g/L (lb/gal)
Fillers	500 (4.2)	500 (4.2)	275 (2.3)
High-Solid Stains	700 (5.8)	550 (4.6)	350 (2.9)
Inks	500 (4.2)	500 (4.2)	500 (4.2)
Mold-Seal Coatings	750 (6.3)	750 (6.3)	750 (6.3)
Multi-Colored Coatings	685 (5.7)	685 (5.7)	275 (2.3)
Low-Solids Stains, Toners and Washcoats	800 (6.7)	480 (4.0)	120 (1.0)
Adhesives	250 (2.1)	250 (2.1)	250 (2.1)

[Rule 1114]

29. Owner/Operator shall apply coatings to metal parts and products subject to the provisions of Rule 1115 by using equipment properly operated according to manufacturer's suggested guidelines using one or more of the following methods:
(a) Electrostatic attraction.
(b) High Volume Low Pressure (HVLP) spray equipment.

(c) Dip coat.
(d) Hand Application Methods.
[Rule 1115]

30. 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 85 percent:

LIMITS
(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

Coating	Air Dried		Baked	
	g/L	(lb/gal)	g/L	(lb/gal)
General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
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)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
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)	420	(3.5)
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)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115]

31. The provisions of Part II, Condition A. 29 shall not apply to the application of touch-up coatings, repair coatings, textured coatings, metallic coatings which have a metallic content of more than 30 grams per liter, mold-seal coatings, and to facilities that use less than three gallons of such coatings per day, as applied, including any VOC-containing materials added to the original coatings as supplied by the manufacturer.
[Rule 1115]

32. The provisions of Part II, Conditions A.29 and A.30 shall not apply to:
(a) A facility which uses a total of less than one gallon of coating in any one day, including any VOC-containing materials added to the original coating as supplied by the manufacturer.
(b) Total noncompliant coating use per facility that does not exceed 55 gallons per year.
(c) Stencil coatings.
(d) Safety-indicating coatings.
(e) Magnetic data storage disk coatings.
(f) Solid-film lubricants.
(g) Adhesives.
(h) The coating of motor vehicle bodies at motor vehicle rework facilities.
[Rule 1115]

33. Owner/Operator of any facility classified as exempt or claiming to be exempt under District Rule 1115, shall meet the record keeping requirements of District Rule 1115 so as to be able to certify the exemption status. [Rule 1115]

34. Owner/Operator of any coating, coating operation, or facility which is exempt from all or a portion of the VOC limits of Rule 1115 shall comply with the provisions of Rule 442 unless compliance with the limits specified in Rule 1115 are achieved. [Rule 1115]

35. Owner/Operator shall comply with the following requirements when using solvent for surface preparation, cleanup, and paint removal, including paint spray equipment:
(a) (i) VOC-containing materials for surface preparation shall not have a VOC content in excess of 200 grams of VOC per liter of material (1.67 pounds per gallon); or
(ii) VOC-containing materials has an initial boiling point of 190 deg C (374 deg F) or greater; or
(iii) VOC-containing materials has a total VOC vapor pressure of 20 mm Hg or less, at 20 deg C (68 deg F).
(b) Owner/Operator shall use closed, nonabsorbent containers for the storage or disposal Of cloth or paper used for solvent surface preparation and cleanup.
(c) Owner/Operator shall store fresh or spent solvent in closed containers.
(d) Owner/Operator shall not use organic compounds for the cleanup of spray equipment including paint lines unless an enclosed system is used for cleanup. The system shall enclose spray guns, cups, nozzles, bowls, and other parts during washing, rinsing and draining procedures. Equipment used shall minimize the evaporation of organic compounds to the atmosphere. [Rule 1115]

36. Owner/Operator shall not specify the use in the District of any coating to be applied to any metal parts and products subject to the provisions of this District Rule 1115 that does not meet the limits and requirements of District Rule 1115. This requirement applies to all written or oral contracts. [Rule 1115]

37. Owner/Operator subject to Part II, Section A, conditions A. 29 through A. 41 shall comply with the following requirements:
(a) Owner/Operator shall maintain and have available during an inspection, a current list

of coatings in use which provides all of the coating data necessary to evaluate compliance, including the following information, as applicable:
1. coating, catalyst, and reducer used.
2. mix ratio of components used.
3. VOC content of coating as applied.
4. quantity of Group II exempt compounds used.
(b) Owner/Operator shall maintain records on a daily basis including:
1. coating and mix ratio of components used in the coating; and
2. quantity of each coating applied.
(c) Owner/Operator shall maintain records on a daily basis showing the type and amount of solvent used for cleanup, surface preparation, and paint removal.
(d) 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. [Rule 1115

38. Owner/Operator shall obtain, and maintain records from the coating/ paint manufacturer regarding the VOC content of the coating/paint and any solvents contained therein. [Rule 1115

39. The Owner/Operator of any facility electing to engage in the mixing of coatings/ paints or solvents shall be required to obtain and maintain an analysis of the mixture from an independent testing laboratory. [Rule 1115]

40. A violation of the limits contained in Part II, Conditions A.29 through A.41 as determined by any one of Part II, Condition A.401 Reference Method Tests shall constitute a violation of applicable Part II conditions. [District Rule 1115]

41. The following specified *Reference Method Tests* shall be used to determine compliance with the provisions of Part II, Conditions A.28 through A.38, as required by District Rule 1115:
(a) The VOC content of coatings and solvents, as specified in subsections (C)(2) and (C)(4)(c)(i), shall be analyzed as prescribed by USEPA Reference Method 24 for VOC content (without correction for exempt compounds) and ASTM D4457-85, or CARB Method 432, for determination of emissions of exempt compounds. Perfluorocarbon compounds shall be assumed to be absent from a product or process unless a manufacturer or facility operator identifies the specific individual compounds (from the broad classes of perfluorocarbon compounds) and the amounts present in the product or process and provides a validated test method which can be used to quantify the specific compounds.
(b) Determination of the initial boiling point of liquid containing VOC, subject to subsection (C)(4)(c)(ii), shall be conducted in accordance with ASTM D1078-86.
(c) Calculation of total VOC vapor pressure for materials subject to subsection (C)(4)(c)(iii) shall be conducted in accordance with ASTM D2879-86. The fraction of water and exempt compounds in the liquid phase shall be determined by using ASTM D3792-91 and D4457-85 and shall be used to calculate the partial pressure of water and exempt compounds. The results of vapor pressure measurements obtained using ASTM D2879-86 shall be corrected for partial pressure of water and exempt compounds.

(d) Measurement of solvent losses from alternative application cleaning equipment subject to (C)(4)(b)(iii) shall be conducted in accordance with the South Coast Air Quality Management District's "General Test Method for Determining Solvent Losses from Spray Gun Cleaning Systems" (11/1/94).
(e) Measurement of acid content of a substance shall be determined by ASTM D1613-85.
(f) Measurement of metal content of coatings shall be determined in accordance with South Coast Air Quality Management District's "Laboratory Methods of Analysis for Enforcement Samples" manual, "Determination of Percent Metal in Metallic Coatings by Spectrographic Method, Method 311".
(g) Capture Efficiency shall be determined according to USEPA's technical document, "Guidelines for Determining Capture Efficiency" (1/9/95).
(h) The control efficiency of the Control Device shall be determined according to USEPA Test Methods 25, 25A or 25B for measuring the total gaseous organic concentrations at The inlet and outlet of the emissions Control Device, as contained in 40 CFR Part 60, Appendix A. USEPA Test Method 18 or CARB Method 422 shall be used to determine emissions of exempt compounds.
(i) Measurement of solids content by weight of a substance shall be conducted in Accordance with ASTM D1475-60.
(j) Alternative test methods may be used upon obtaining the approval of the APCO, CARB and USEPA.
(k) Demonstration of Transfer Efficiency of alternative application methods subject to Rule 1115 subsection (C)(1)(a)(v) shall be conducted in accordance with South Coast Air Quality Management District's "Spray Equipment Transfer Efficiency Test Procedure for Equipment User" (5/24/89). [Rule 1115 and 40 CFR 70.6 (a)(3)(i)(B) – Periodic Monitoring Requirements]

42. Owner/Operator must comply with District Rule 1161 – Portland Cement Kilns, as applicable. The Portland Cement kiln shall comply with the following requirements:
(a) NO_X Reduction Technologies
(i) The Owner/Operator of a kiln subject to District Rule 1161 shall operate such equipment with NO_X 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_X burners
c. Staged combustion
d. NO_X-reducing fuels or substances (includes tire-derived fuels).
(b) NO_X 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 NOx 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) NOx 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_X/day

b. For Preheater-Precalciner Kilns manufactured by Humboldt-Wedag whose construction was completed in 1984: 28,160 lb NO_X/day

c. For all other Kiln types: maximum heat input of 4,500 MMBtu/day/Kiln

(d) Additional Start-up and Shut-down Requirements

a. 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;

b. All possible steps will be taken to minimize the impact of emissions during Start-up and Shut-down on ambient air quality;

c. 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

d. 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_X 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 NOx shall be less than or equal to ninety percent (90%) of the sum of the total NOx 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 NOx Emissions per Clinker ton will be used to comply with the NOx 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 NOx 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 NOx 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):

lb/hr = 7.1497 x 10-6 (ppmv)(dscfm)

d. For the purposes of Rule 1161, Oxides of Nitrogen shall be calculated as NO2 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_X 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_X 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_X 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_X emission concentrations and NO_X 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_X 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 NOx)."

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 02 and CO2 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 NOx less than or equal to ninety percent (90%) of the sum of the total allowable NOx 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 NOx less than or equal to the sum of the total allowable NOx 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]

~~The Portland Cement kiln shall comply with the following requirements~~

~~(C) Technology Requirements~~

~~(1) NOx Reduction Technologies~~

~~(a) The Owner/Operator of a kiln subject to this Rule shall operate such equipment with NOx 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:~~

~~(i) Combustion Controls~~
~~(ii) Low NOx burners~~
~~(iii) Staged combustion~~
~~(iv) NOx-reducing fuels or substances (includes tire-derived fuels).~~

~~(2) NOx RACT Emission Limits All periods except Start-up and Shut-down~~

~~(a) Any owner or operator of a kiln subject to this Rule shall not exceed the following NOx emission limits, calculated pursuant to Section (E)(1)(b), during periods of operation other than Start-up and Shut-down:~~

~~(i) For Preheater-Precalciner Kilns: 6.4 lb/ton of clinker produced when averaged over any 30 consecutive day period;~~
~~(ii) For Long Dry Kilns: 6.4 lb/ton of clinker produced when averaged over any 30 consecutive day period;~~
~~(iii) For Short Dry Kilns: 7.2 lb/ton of clinker produced when averaged over any 30 consecutive day period.~~

~~(b) For kiln systems which recover waste heat and convert it into electricity, the NOx emission limit shall be adjusted using the following equation:~~

~~Waste Heat Recovery NOx Emission Limit = Lb NOx/clinker ton per Section (C)(2)(a) x Recovery Factor.~~

~~Recovery Factor = 1 + Waste Heat Recovered (Btu/hr) Kiln Heat Input* (Btu/hr)~~

~~* Kiln Heat Input shall be based on the higher heating value of the fuel fired.~~

~~(3) NOx RACT Emission Limits Start-up and Shut-down Periods~~

~~(a) Any owner or operator of a kiln subject to this Rule shall not exceed the following limits during Start-up and Shut-down~~

periods:

(i) For Preheater-Precalciner Kilns manufactured by Allis Chalmers whose construction was completed in 1982: 17,616 lb NOx/day

(ii) For Preheater-Precalciner Kilns manufactured by HumboldtWedag whose construction was completed in 1984: 28,160 lb NOx/day

(4) Additional Start-up and Shut-down Requirements

(a) 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;

(b) All possible steps will be taken to minimize the impact of emissions during Start-up and Shut-down on ambient air quality;

(c) 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

(d) 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) Compliance Determination

(1) Any owner or operator of a kiln subject to this Rule 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).

(b) Emission Calculation Method

(i) Emissions shall be calculated by dividing the sum of all hourly lb of NOx 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) and during Start-up and Shut-down.

~~(c) Any owner or operator of a kiln subject to this Rule shall convert observed NOx 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): lb/hr = 7.1497 x 10-6 (ppmv)(dsefm)~~

~~(d) For the purposes of this Rule, oxides of nitrogen shall be calculated as NO2 on a dry basis.~~

~~(F) Monitoring and Recordkeeping~~

~~(1) Continuous Emissions Monitoring~~

~~(a) Any owner or operator of a kiln subject to this Rule shall not Operate such equipment unless it is equipped with one of the following:~~

~~(i) 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), or the aggregate emission limit, as set forth in Section (D), by measuring NOx emissions; or~~

~~(ii) If an owner or operator can demonstrate, by preponderance of the evidence, that installation of a CEMS conforming to the requirements of Section (F)(1)(a)(i) above is technologically and economically unfeasible, the owner or operator may provide an alternate calculational 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 calculational 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 this Rule.~~

~~(2) Recordkeeping Requirements~~

~~(a) Any owner or operator of a kiln subject to this Rule shall produce~~

and maintain CEMS records, or alternate records pursuant to Section (F)(1)(a)(ii) above, for each affected kiln on a daily basis. Such records shall include, but are not limited to:

(i) The emissions, in pounds, of NOx from each cement kiln if complying with the limit specified in (C)(2) on a permit unit basis; or

(ii) The aggregate emissions, in pounds, of NOx from all cement kilns at a facility, if complying with the limit specified in (C)(2) on an aggregate basis, as approved by the District.

(iii) 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;

(iv) 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).

(b) Any owner or operator of a kiln subject to this Rule shall produce and maintain daily records of NOx emission concentrations and NOx mass emission rate, as required by Section (E)(1)(c).

(c) Any owner or operator of a kiln subject to this Rule shall produce and maintain daily clinker production records.

(d) Any owner or operator of a kiln subject to this Rule 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 two years and be made available to the APCO or his designee upon request.

(3) Emission Reporting

(a) Daily NOx emission data for the calendar quarter compiled pursuant to Section (F)(2)(a)(i) or (ii) shall be submitted to the District. All quarterly reports must be received within 30 days after the end of each quarter.

(G) Exemptions

(1) The requirements of Sections (C)and (D) 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 gasesous 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 or operator's actions under this exemption must be documented by properly signed, contemporaneous operating logs, or other relevant evidence.~~

~~(H) Test Methods~~

~~(1) 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 NOx)."~~

~~(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 02 and CO2 Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)" or CARB Method 100.~~

43. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - Federal Operating Permits). [District Regulation XII]

44. 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]

B. FACILITY-WIDE 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. [40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

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. [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.

[40 CFR 70.6(a)(3)(B) – Periodic Monitoring Requirements; Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a); California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

4 Owner/Operator shall submit, annually, a Compliance Certification as prescribed by Rule 1203(F)(1) and Rule 1208, in a format approved by MDAQMD. Compliance Certifications 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. [40 CFR 72.90.a; 40 CFR 70.6(c)(5)(i); Rule 1203(D)(1)(g)(v-x); District Rule 1203(F)(1); Rule 1208]

(a) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance. [40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]

(b) Owner/Operator when submitting any *Compliance Certification(s)* to the MDAQMD shall contemporaneously submit such *Compliance Certification(s)* to USEPA, Region IX Administrator. [40 CFR 70.6(5)(iii); Rule 1203(D)(g)(ix)]

(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. [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 be postmarked by May 30th of each year. Each report must cover the annual period from May 1st through April 30th and shall be certified to be true, accurate, and complete by "The Responsible Official". A copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator. [40 CFR 72.90.a and *Derived from* Rule 1203 (D)(1)(g)(v - x)] [40 CFR 72.90.a and Rule 1203 (D)(1)(g)(v - x)]

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.

[Rule 1203(D)(1)(c)(i - iii); 1203(D)(1)(d)(i); Rule 1203(D)(1)(e)(i - ii); Rule 1203(D)(1)(g)(v - x)]

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. [Rule 1203(D)(1)(e)(ii) and Rule 430(C)]

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]

(b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with the required *Monitoring Reports* at least every six (6) months. [Rule 1203(D)(1)(e)(i)]

7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then owner/operator shall submit 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. [Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

8. **"CEMEX has determined that the transfer points from the clinker stacker to the clinker pile for outdoor storage and at the emergency pits frequently exceed the 10% opacity limit specified at 40 CFR 60 Subpart F, the 20% opacity limit of MDAQMD Rule 401 and the 40% limit allowed by Health & Safety Code §41701. The facility is currently operating under a Regular Variance granted by the MDAQMD Hearing Board March 13, 2003. CEMEX is developing a corrective action plan and Schedule of Compliance, which will be submitted by September 22, 2003 and presented at the next scheduled Hearing Board meeting for their approval pursuant to the requirements of MDAQMD Regulation 5. The corrective actions will include the submittal of a permit application request for an Authority to Construct. CEMEX will also apply for a Conditional Use Permit, if required."**

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. FACILITY-WIDE 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. [40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(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. [40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(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. [40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(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. [40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(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. [1203 (D)(1)(f)(ii)]

6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit. [Rule 1201 (I)(2); Rule 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, 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. [Rule 1211]

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

CEMEX - River Plant

A. EQUIPMENT DESCRIPTION

GROUP #1 – CLINKER STORAGE & HANDLING

1. CLINKER AND GYPSUM TRANSFER SYSTEM – MDAQMD PERMIT # B000004; consisting of:

25.0 HP Belt Conveyor – JBC 18

1. 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 Rule 204, 401, 402, and 403, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. R/R RAW MATERIAL RECLAIM SYSTEM (1201) – MDAQMD PERMIT # B001287; consisting of:

Controls: C000005 (JBH1) 253 hp; C000006 (JBH2) under permit B001288.
30.0 Feeder, Apron, Covered – JAFC1, JAFC2
150.0 Belt Conveyor – JBC1
3.0 Screw Conveyor – JBH1SC
183.0

1. 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 Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. AIR POLLUTION CONTROL EQUIPMENT (JBH 1) – MDAQMD PERMIT # C000005; consisting of:

Serving Raw Material Receiving Conveyors (B001287).
Baghouse, Industrial Clean Air model 625-16 PC, Pulse Clean 640 ICA No. 250 tubes – JBH1
200.0 Exhaust Fan, ICA NOLB 54
50.0 Air Compressor, Gardner-Denver
3.0 Screw Conveyor, 10,000 SF, 60,000 cfm
253.0

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. RECEIVING SYSTEM - RAW MATERIAL – MDAQMD PERMIT # B001288; consisting of:

Control: C000006 (JBH2), C007672 (JBH - 31)
30.0 Belt Conveyor 36" x 576'; 505 FPM @ 1,000 TPH, contained within storage building - JBC4
25.0 Belt Conveyor 36" x 491'; 475 FPM @ 1,000 TPH, contained within storage
55.0 building - JBC5

1. 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. BAGHOUSE (JBH 2) – MDAQMD PERMIT # C000006; consisting of:

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 ft2, 5,000 cfm

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. BAGHOUSE (JBH 31) – MDAQMD PERMIT # C007672; consisting of:

Mikropul baghouse, Model No. 815-10-20, with 954 sqft of filter area, drawing 4710

acfm at 9 inches WG, driven by a 15 hp motor at 1800 rpm, filtering the exhaust from the drop point from belt conveyor JBC4 to belt conveyor JBC5 under permit B001288 (Group #1).

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This baghouse shall be operated concurrently with conveyor belt JBC4 under permit B001288. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. CLINKER RECEIVING AND STORAGE SYSTEM (1203) – MDAQMD PERMIT # B001092; consisting of: Control: C001277 (JBH4); C001278 (JBH3).

200.0 Belt Conveyor, covered – JBC 2
25.0 Belt Conveyor, covered – JBC 3
Clinker Silo, south (T002053)
Clinker Silo, east (T002053)
225.0

1. 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). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. BAGHOUSE (JBH 4)- MDAQMD PERMIT # C001277; consisting of:

Serves Clinker Conveyor to Storage (B001092).
Baghouse, Clinker Silo, Flex Kleen model 120 WRTC-64 (III), 979 ft2 cloth area, 4,500 cfm, 30 hp - JBH4

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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 two years. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

9. AIR POLLUTION CONTROL EQUIPMENT (JBH3) – MDAQMD PERMIT # C001278; consisting of:

Serves Clinker Conveyor to Storage (B001092).

Baghouse, Clinker Silo, Flex Kleen model 120 WRTC-48 (III), 734 ft2 cloth area, 4,000 cfm, 25 hp - JBH3

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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 two years. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

10. SILOS - CLINKER AND GYPSUM STORAGE – MDAQMD PERMIT # T002053; consisting of: Control: under B001092: C001277 (JBH4) 30 hp; C001278 (JBH3) 25 hp.

Under B007633: C001276 JBH5) 25 hp; C007634 6 hp.
935000.0 Silo West-Gyp; 125,000 CF
1047200.0 Silo South-Clkr; 140,000 CF

1047000.0 Silo East-Clkr; 140,000 CF
3029200.0

1. 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 (JBH5, JBH4, JBH3, JBH30). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

11. GYPSUM UNLOADING AND CONVEYING SYSTEM – MDAQMD PERMIT # B007633; consisting of:

25.0 Conveyor belt J-BC-18 which unloads the two gypsum Truck Unloading Hoppers
75.0 Conveyor belt, JBC 19, fed by J-BC-18 and feeds gypsum silo, District permit 100.0 T002053

1. This equipment shall not be operated unless vented to properly functioning baghouses under valid District permits C007634 and C001276. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

12. BAGHOUSE (JBH 5) – MDAQMD PERMIT # C001276; consisting of:

Serves Gypsum unloading and conveying system (B007633).
Baghouse, Gypsum Silo, Flex Kleen model 120 WRTC-48(III), 734 ft2 cloth area, 4,000 cfm, 25 hp - JBH5

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

13. BAGHOUSE (JBH 30) – MDAQMD PERMIT # C007634; consisting of:

A Flex-Kleen model 120BVTS36, Arr. III. This unit has 36 bags, whose lengths are 120 in long. The unit is driven by a 6 hp fan rated to draw 2000 ACFM with an A:C ration of 3.6:1. The total area of the bags is 551 sq ft.

1. The owner/operator, (o/o), shall operate/maintain this equipment in strict accord with

recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This baghouse shall be operated concurrently with the Truck unloading system-gypsum train under valid District permit B007633. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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

14. PLANT CLEAN-UP HOPPER – MDAQMD PERMIT # B007785; consisting of:

Hopper for front-end loader and truck unloading of miscellaneous plant materials (system includes an enclosed drop onto JBC1 (B001287)).
6 ton Clean-Up Hopper
5.0 Barber-Green Belt Conveyor 36" x 20' (10 tph) (JBC1RB)
5.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District Permit C007783 (JBH32). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

15. BAGHOUSE (JBH 32) – MDAQMD PERMIT # C007783; consisting of:

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. This baghouse shall operate concurrently with the equipment described as the Plant Clean-up Hopper (B007785) at the pickup point mentioned above. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require emissions testing at its discretion. [Rules 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP #2 CLINKER GYPSUM RECLAIM and STORAGE SYSTEM

16. CLINKER AND GYPSUM RECLAIM SYSTEM (1204) – MDAQMD PERMIT # B001280; consisting of:

Control: C001281 (JBH6); C001282 (JBH7); C001283 (JBH8); C001284 (JBH9) under B001788.

5.0 Bin Vibrator - JTS2VB2
19.0 Conveyor Vibratory - JVF3, 4, 5
10.0 Conveyor Belt - JBC9
40.0 Conveyor Belt - JBC10
150.0 Conveyor Belt - JBC11
15.0 Conveyor Belt - JBC12
239.0

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

17. BAGHOUSE (JBH 6) – MDAQMD PERMIT # C001281; consisting of:

Serves Clinker and Gypsum Reclaim System (B001280).
Baghouse, FM-12, Flex Kleen model 120 WRTC-80 (III), 1,224 ft2 cloth area, 6,000 cfm, 30 hp - JBH6

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR

52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

18. BAGHOUSE (JBH 7) – MDAQMD PERMIT # C001282; consisting of:

Serves Clinker Conveyor to Storage (B001280).
Baghouse, Clinker and Gypsum Reclaim, Flex Kleen model 120 WRTC-48 (III), 734 ft2 cloth area, 3,500 cfm, 25 hp - JBH7

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rule 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

19. BAGHOUSE (JBH 8) – MDAQMD PERMIT # C001283; consisting of:

Serves Clinker Conveyor to Storage (B001280).
Baghouse, Clinker and Gypsum Reclaim, Flex Kleen model 120 WRTC-48 (III), 734 ft2 cloth area, 3,500 cfm, 25 hp - JBH8

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

20. CLINKER AND GYPSUM RECLAIM SYSTEM – MDAQMD PERMIT # B000011; consisting of:

Control: C000003 (JBH11)
20.0 Reclaim Feeders, 2 @ 10 hp ea.
30.0 Conveyors (20, 5, 5 hp) – JBC15, 16, 17
15.0 Conveyors (15) – JBC14
50.0 Elevator – JE1
115.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment (C000003). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

21. AIR POLLUTION CONTROL EQUIPMENT (JBH 11) – MDAQMD PERMIT # C000003; consisting of:

Serving Clinker & Gypsum Reclaim Conveyors (B000011). Baghouse, SWPC Mk V with 200 bags 6 1/8" dia x 149' 1, 5,650 ft2, 11,300 cfm, and A/C ratio 2:1. 25 hp - JBH11

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

22. CLINKER AND GYPSUM TRANSFER SYSTEM – MDAQMD PERMIT # B000007; consisting of:

Control: C004867 (JBH28); C004868 (JBH29); C004869 (JBH27); C000056 (KBH11) under B000053 and C001911 (JBH 10) under B001788.
87.5 Belt Conveyors (50, 15, 7.5 hp, 15hp) - JBC6, 7, 8, 13
150.0 Elevator - JE2
237.5

1. This equipment shall not be operated without the baghouses with valid District permits (C000056, C004867, C004868 and C004869) in proper operation. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

23. BAGHOUSE (JBH28) – MDAQMD PERMIT # C004867; consisting of:

Serving a transfer point on the conveyors which come from the clinker railroad unloading station (B000059) with the following specifications:
Mfg. by Flex-Kleen
Model No.: 120-WSTS-36 Arr III
Exhaust Fan: 10 hp & 3,000 cfm
A/C: 5.4:1 & 551 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2, The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

24. BAGHOUSE (JBH29) – MDAQMD PERMIT # C004868; consisting of:

Serving a transfer point on the conveyors which come from the clinker railroad unloading station (B000059) with the following specifications:
Mfg. by Flex-Kleen
Model No.: 120-WSTS-36 Arr III
Exhaust Fan: 10 hp & 3,000 cfm

A/C: 5.4:1 & 551 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2, The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

25. <u>BAGHOUSE (JBH27) – MDAQMD PERMIT # C004869; consisting of:</u>

Serving a transfer point on the conveyors which come from the clinker railroad unloading station (B000059) with the following specifications:
Mfg. by Flex-Kleen
Model No.: 120-WSTS-49 Arr III
Exhaust Fan: 15 hp & 4,000 cfm
A/C: 5.3:1 & 750 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the conveyors which come from the clinker railroad unloading station covered in District permit B000007 and B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of

these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

26. HANDLING AND STORAGE SYSTEM – MDAQMD PERMIT # B000009; consisting of:

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 Belt Conveyor - JBC7
2.0 Screw Conveyor - JBH12SC
9.5

1. This equipment shall not be operated unless all of the control equipment mentioned above are functioning and operating. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

27. BAGHOUSE (JBH 17) – MDAQMD PERMIT # C004854; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009), with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

28. BAGHOUSE (JBH 18) – MDAQMD PERMIT # C004855; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

29. BAGHOUSE (JBH 19) – MDAQMD PERMIT # C004856; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9, and 10 (B000009) with the following specifications:
Mfg. by DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40

CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

30. BAGHOUSE (JBH 20) – MDAQMD PERMIT # C004857; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9, and 10 (B000009) with the following specifications:
Mfg by DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

31. BAGHOUSE (JBH 21) – MDAQMD PERMIT # C004858; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

32. BAGHOUSE (JBH 22) – MDAQMD PERMIT # C004859; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR

52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

33. BAGHOUSE (JBH 23) – MDAQMD PERMIT # C004860; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

34. BAGHOUSE (JBH 24) – MDAQMD PERMIT # C004861; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

35. BAGHOUSE (JBH 25) – MDAQMD PERMIT # C004862; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm
A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

36. BAGHOUSE (JBH 26) – MDAQMD PERMIT # C004863; consisting of:

Serving a transfer point in the Handling and Storage System for Clinker Product serving Finish Mills 7, 8, 9 and 10 (B000009) with the following specifications:
Mfg. By DCE, Inc.
Model No.: C24H Pulse
Exhaust Fan: 3 hp & 1500 cfm

A/C: 5.8:1 & 258 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Handling and Storage System serving Finish Mills 7, 8, 9, and 10 covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

37. BAGHOUSE (JBH 16) – MDAQMD PERMIT # C008245; consisting of:

DCE Model C24H, Pulse-Jet, airflow of 1500 acfm at ambient temperature, 3 bhp motor, Polyester Bags, 258 ft2 of cloth area and Air-to-Cloth ratio of 5.8:1, maximum emission rate of 0.01 grains PM-10/dscf

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly screenings of visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) and regular (at least monthly, but to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rule 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Clinker and Gypsum System under valid District permit number B000009 at Clinker bin JCH7. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required; however, the District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

38. TRANSFER SYSTEM – MDAQM D PERMIT # B001788; consisting of:

To Clinker/Gypsum Bins. Control: C001284 (JBH9); C001911 (JBH10).
15.0 Belt Conveyor - JBC13
___ Clinker Tripper - JBC13T
15.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C001284 and C001911. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

39. BAGHOUSE (JBH 9) – MDAQMD PERMIT # C001284; consisting of:

Serves Clinker Conveyor to Storage (B001788).
Baghouse, Clinker and Gypsum Reclaim, Flex Kleen model 120 WRTC-48 (III), 734 ft2 cloth area, 3,500 cfm, 25 hp - JBH9

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rule 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

40. <u>BAGHOUSE (JBH 10) – MDAQMD PERMIT # C001911; consisting of:</u>

Serves Clinker Conveyor to Storage (B001788).
Pulse Jet type Dust Collector, Clinker/Gypsum Reclaim, DCE Vokes, 215 ft2, 1,500 cfm.
Fan: 5 hp. - JBH10

1. 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. [District Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP #3A – FINISH MILL #1 (FM #1)

41. <u>FINISH MILL (KM 1) –MDAQMD PERMIT # B005192; consisting of:</u>

A finish grinding system with the following equipment (as shown on diagram 9948-F-210):
5.0 Discharge Airslide Fan
10.0 Elevator Airslide Fan
15.0 SKS Rejects Airslide Fan
7.5 SKS Baghouse Airslide Fan
7.5 Product Airslide Gan #1
0.1 Cement Cooler Bypass Diverter Gate
801.2 SKS Separator (and related misc)
20.0 Feed Belt Conveyor
0.3 Feed Nuisance Baghouse
50.0 Feed Nuisance Baghouse Fan
0.3 Sweep Baghouse

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

1. 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). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

42. BAGHOUSE (KBH 23) – MDAQMD PERMIT # C005193; consisting of:

Product Nuisance Dust Collector equipped with a 50 hp fan generating 10,000 acfm with an 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.

1. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information which shall be provided to District personnel upon request:
   a. Pressure differential across the bags (weekly);
   b. Baghouse stack visible emissions determination (monthly or as otherwise allowed by 40 CFR 63.1350);
   c. Bags and bag suspension system inspection (quarterly); and
   d. Bag replacements and repairs.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall discharge no more than 0.80 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf at the operating conditions given in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

43. BAGHOUSE (LBH12) – MDAQMD PERMIT # C005194; consisting of:

a MK v Fabric Dust Collector equipped with a 50 hp fan generating 5000 acfm with an exhaust temperature of 100 deg F, Air to Cloth ratio of 1.74:1, 144 bags, 6 1/8 " diameter x 150" length (Surface area 2880 square feet). This unit is not installed on equipment at

this time.

1. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information which shall be provided to District personnel upon request:
   a. Pressure differential across the bags (weekly);
   b. Baghouse stack visible emissions determination using Method 22 (monthly or as otherwise allowed by 40 CFR 63.1350);
   c. Bags and bag suspension system inspection (quarterly); and
   d. Bag replacements and repairs.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This baghouse shall discharge no more than 0.40 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf at the operating conditions given in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. The o/o shall submit an application for modification to the District prior to this equipment being installed and operated. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

44. BAGHOUSE (KBH 22) – MDAQMD PERMIT # C005195; consisting of:

Finish Mill #1 (KM1) Separator Stack Dust Collector filtering the exhaust stream from the separator generated by the separator 800 hp fan (173,000 acfm) with an exhaust temperature of 176 deg F. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.

1. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information which shall be provided to District personnel upon request:
   a. Pressure differential across the bags (weekly);
   b. Baghouse stack visible emissions determination (monthly or as otherwise allowed by 40 CFR 63.1350);
   c. Bags and bag suspension system inspection (monthly); and
   d. Bag replacements and repairs.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall discharge no more than 12.12 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf at the operating conditions given in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

45. BAGHOUSE (KBH 21) – MDAQMD PERMIT # C005196; consisting of:

Finish Mill #1 (KM1) Sweep Dust Collector, equipped with a 200 hp fan generating 45,000 acfm with an exhaust temperature of 221 deg F. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.

1. This baghouse shall operate concurrently with the equipment described as the Finish Mill KM1 (B005192). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information which shall be provided to District personnel upon request:
   a. Pressure differential across the bags (weekly);
   b. Baghouse stack visible emissions determination (monthly or as otherwise allowed by

40 CFR 63.1350);
c. Bags and bag suspension system inspection (monthly); and
d. Bag replacements and repairs.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall discharge no more than 2.95 lb/hour of particulate at a maximum concentration of 0.010 grain/dscf at the operating conditions given in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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

46. FINISH MILL (KFM7)- MDAQMD PERMIT # B000045; consisting of:

Control: C000046 (KBH7) 155 hp.
1.0 Belt Feeders, 2 (KWF7C and KWF7GS)
1000.0 Finish Mill - KFM7
50.0 Elevator - KE7
125.0 Air Separator - KAS7
1176.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000046. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

47. AIR POLLUTION CONTROL EQUIPMENT (KBH 7) – MDAQMD PERMIT # C000046; consisting of:

Serving Finish Mill No. 7 (B000045).
Baghouse, SWPM MkIII, 9 Compartments, 648 bags - 6" dia x 118" 1. 9,504 ft2 cloth, 25,000 cfm, 155 hp - KBH7

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR

52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

48. FINISH MILL (KFM8) – MDAQMD PERMIT # B000047; consisting of:

Control: C000048 (KBH8) 60 hp
1.0 Belt Feeders, 2 - KWF8C & KWF8GS
1000.0 Finish Mill - KFM8
50.0 Elevator - KE8
125.0 Air Separator - KAS8
1176.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000048. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

49. AIR POLLUTION CONTROL EQUIPMENT (KBH 8) – MDAQMD PERMIT # C000048; consisting of:

Serving Finish Mill No. 8 (B000047).
Baghouse, SWPC Mk V, 4 Compartments, 288 bags, 6" dia x 156" 1, 5,656 ft2 cloth, 16,000 cfm, 60 hp - KBH8

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

50. FINISH MILL (KE 9) – MDAQMD PERMIT # B000049; consisting of:

Control: C000050 (KBH9) 65 hp
1.0 Belt Feeders, 2 - KWF9C & KWF9GS
1000.0 Finish Mill - KFM9
50.0 Elevator - KE9
125.0 Air Separator - KAS9
1176.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000050. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

51. AIR POLLUTION CONTROL EQUIPMENT (KBH 9) – MDAQMD PERMIT # C000050; consisting of:

Serving Finish Mill No. 9 (B000049).
Baghouse, SWPC Mk V, 4 Compartments, 288 bags, 6" dia x 156" 1, 5,656 ft2 cloth, 16,000 cfm, 65 hp - KBH9

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

52. FINISH MILL (KFM10) – MDAQMD PERMIT # B000051; consisting of:

Control: C000052 (KBH10) 100 hp
1.0 Belt Feeders, 2 - KWF10C & KWF10G
1000.0 Finish Mill - KFM10
50.0 Elevator - KE10
125.0 Air Separator - KAS10
1176.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000052. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

53. AIR POLLUTION CONTROL EQUIPMENT (KBH 10) – MDAQMD PERMIT # C000052; consisting of:

Serving Finish Mill No. 10 (B000051).
Baghouse, SWPC Mk V, 4 Compartments, 288 bags, 6" dia x 156" l, 5,650 ft2 cloth, 18,000 cfm, 100 hp - KBH10

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

54. CEMENT TRANSFER TO STORAGE (DEPT. 60) – MDAQMD PERMIT # B000059; consisting of: 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; and C008566 (BHA20) 50 hp:
49.0 Air Slide System
1085.0 Cement Pump System (from Finish Mills 7, 8, 9, 10) 4 @ 200, 3 @ 75, 1 @ 60 hp
15.0 Feed System Group 1 Silos: MSC12 Screw Conveyor
10.0 Transfer System from Silo 3: 4B Screw Conveyors LSC11 & LSC12 @ 5 hp ea.
15.0 Feed System Group 2 Silos: LRS1 Rot Screen
130.0 Silo Fill Screw Conveyor
20.0 Feed System Group 3 Silos: LRS2 Rot Screen
100.0 LSC5 Screw Conveyor
15.0 Feed System Group 4 Silos: LRS3 Rot Screen
15.0 LSC4 Rot Screen
200.0 Silo Fill System
1654.0

1. Equipment 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 and C008566. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

55. AIR POLLUTION CONTROL EQUIPMENT (LBH 1) – MDAQMD PERMIT # C000060; consisting of:

Serving Cement to Group 2 Silos System (B000059).
Baghouse, SWPC Dwg. D99-M101, 2 Compartments, 144 bags, 6" dia x 166" l, 3,016 ft2 cloth area, 6,000 cfm, 25 hp - LBH1

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the

manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

56. AIR POLLUTION CONTROL EQUIPMENT (LBH 2) – MDAQMD PERMIT # C000061; consisting of: Serving Cement to Group 4 Silos System (B000059).
Mikro-Pul Pulse Jet, 2,500 ft2, 10,000 acfm @ 140 degrees F, model 210-S-10 TR, 1.53' dia x 122' high. Fan: American Blower type E, size 450, 25 hp - LBH2

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The baghouse shall be fitted with an airlock on each material discharge port. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 1302; Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

57. AIR POLLUTION CONTROL EQUIPMENT (LBH 3) – MDAQMD PERMIT # C000062; consisting of: Serving Cement to Group 4 Silos System (B000059).
Mikro-Pul Pulse Jet, 2,500 ft2, 10,000 acfm @ 140 degrees F, model 210-S-10 TR, 1.53' dia x 122' high. Fan: American Blower type E, size 450, 25 hp - LBH3

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR

52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The baghouse shall be fitted with an airlock on each material discharge port. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 1302; Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

58. BAGHOUSE (LBH 4) – MDAQMD PERMIT # C000063; consisting of:

A Norblo reverse air baghouse equipped with 220 96" L x 6.25" diameter 16 oz. singed duo-density polyester felt bags of 2880 square feet total area and a 50 hp fan generating 13,200 ACFM (air-to-cloth ratio of 4.6:1). This unit exhausts at greater than ambient temperature (140 deg F). Located on top of Silo 13, serving Cement to Group III Silos System (B000059).

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This equipment shall be operated concurrently with the Group III cement silos (B000059). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). 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. Pressure differential across the bags (monthly);
   b. Baghouse stack visible emissions determination using Method 22 (monthly or as otherwise allowed by 40 CFR 63.1350);
   c. Bags and bag suspension system inspection (quarterly); and,
   d. Bag replacements and repairs.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This baghouse shall discharge no more than 0.98 pounds per hour of PM10 at a maximum

concentration of 0.01 gr/dSCF at the operating conditions given in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

59. AIR POLLUTION CONTROL EQUIPMENT (LBH 6) – MDAQMD PERMIT # C000065; consisting of:

Serving Group 2 Cement Silos (B000059).
Baghouse, SWPC Dwg. D99-M101, 3 Compartments, 216 Bags, 6" dia x 166" 1, 4,524 ft2 cloth area, 12,000 cfm, 40 hp - LBH6

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

60. BAGHOUSE (LBH 9) – MDAQMD PERMIT # C001569; consisting of:

Serves Pneumatic Cement Conveyor (B000059).
Dust Collector, Series 20 General Industrial, Gross cloth area: 542 ft2, 2450 ACFM at above ambient (140 deg F). A/C ratio: 4.5:1, 7.5 hp induced draft fan. Cement Silo No. 25 - LBH9

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). 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. Pressure differential across the bags (monthly);
b. Baghouse stack visible emissions determination using Method 22 (monthly or as otherwise allowed by 40 CFR 63.1350);
c. Bags and bag suspension system inspection (quarterly); and
d. Bag replacements and repairs.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This baghouse shall discharge no more than 0.18 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dSCF 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This equipment shall be operated concurrently with cement silo 25 covered in District permit B000059. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

61. SILO - GROUP I LIME AND CEMENT STORAGE – MDAQMD PERMIT # T002049; consisting of: Control: C008246 (LBH10), and C008247 (LBH8), under B000059

254800.0 Silo: 1 Lime - 34,064 CF
254800.0 Silo: 2 Lime - 34,064 CF
254800.0 Silo: 3 Cement - 34,064 CF
254800.0 Silo: 4 Cement - 34,064 CF
282745.0 Silo: 5 Cement - 37,800
282745.0 Silo: 6 Cement - 37,800
1584690.0

1. 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). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

62. BAGHOUSE (LBH10) – MDAQMD PERMIT # C008246; consisting of:

Mikro Pulseaire 81S-10-20 B, Pulse-Jet, airflow of 4710 acfm at ambient temperature, 15 bhp motor, 81 Polyester Bags, 954 ft2 of cloth area and Air-to-Cloth ratio of 4.9:1, maximum emission rate of 0.01 grains PM-10/dscf

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, which embraces at least weekly screenings of visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) and regular (at least monthly, but to

be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall be used to control emissions from Group 1 Cement Silo 6. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rules 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

63. BAGHOUSE (LBH8) – MDAQMD PERMIT # C008247; consisting of:

FlexKleen 120WSTS-49arr111, Pulse-Jet, stack height of 42 ft, diameter of 2.3 ft, airflow of 4000 acfm, velocity of 16.0 ft/second at ambient temperature, 15 bhp motor, Polyester Bags, 750 ft2 of cloth area and Air-to-Cloth ratio of 5.3:1, maximum emission rate of 0.01 grains PM-10/dscf

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, which embraces at least weekly screenings of visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) and regular (at least monthly, but to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall be used to control emissions from Group 1 Cement Silo 5. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rules 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

64. SILO - GROUP II CEMENT STORAGE – MDAQMD PERMIT # T002050; consisting of:

Supplied by Finish Mills. Control: C000064 (LBH5) under B000059; C000065 (LBH6) under B000059:
269100.0 Silo 7: 35,976 CF
269100.0 Silo 8: 35,976 CF
653140.0 Silo 9: 87,318 CF
653140.0 Silo 10: 87,318 CF
653140.0 Silo 11: 87,318 CF
653140.0 Silo 12: 87,318 CF
70310.0 Silo A: 9,400 CF
70310.0 Silo B: 9,400 CF
70310.0 Silo E: 9,400 CF
70310.0 Silo F: 9,400 CF
3432000.0

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). [Rule 204, 40

CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

65. SILO - GROUP III CEMENT STORAGE – MDAQMD PERMIT # T002051; consisting of:

Supplied by Finish Mills. Control: C000063 (LBH4) under B000059.
555795.0 Silo 13: 74,304 CF
582695.0 Silo 14: 77,914 CF
609740.0 Silo 15: 81516 CF
609830.0 Silo 16: 81528 CF
582700.0 Silo 17: 77,914 CF
555740.0 Silo 18: 74,297 CF
3496500.0

1. All six silos are served by one dust collector. Therefore, these silos shall not be filled unless vented to that functional air pollution control equipment covered by valid District permits C000063. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

66. SILO - GROUP IV CEMENT STORAGE – MDAQMD PERMIT # T002052; consisting of: 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 Silo 19; 59,095 CF
448465.0 Silo 20; 59,095 CF
468055.0 Silo 21; 62,574 CF
467985.0 Silo 22; 62,565 CF
474260.0 Silo 23; 63,404 CF
467380.0 Silo 24; 62,484 CF
467320.0 Silo 25 (Lime); 62,476 CF
474260.0 Silo 26; 63,404 CF
468055.0 Silo 27; 62,574 CF
468055.0 Silo 28; 62,574 CF
448480.0 Silo 29; 59,957 CF
442115.0 Silo 30; 59,106 CF
5536460.0

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

67. BAGHOUSE (LBH 11) – MDAQMD PERMIT # C008565; consisting of:

A General Industrial Series 20 baghouse, equipped with 542 square feet of bags and a 7.5 induced draft fan generating 2450 ACFM (air-to-cloth ratio of 4.5:1). This unit exhausts at greater than ambient (140 deg F). This unit is located on top of silo 23 and controls the

Group IV silos (B000059).

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). 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. Pressure differential across the bags (monthly);
   b. Baghouse stack visible emissions determination using Method 22 (monthly or as otherwise allowed by 40 CFR 63.1350);
   c. Bags and bag suspension system inspection (quarterly); and
   d. Bag replacements and repairs.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This baghouse shall discharge no more than 0.18 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dSCF 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This equipment shall be operated concurrently with the Group IV cement silos covered in District permit T002052. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

68. BAGHOUSE (KBH20) – MDAQMD PERMIT # C008566; consisting of:

A BHA pulse jet baghouse, equipped with 272 120.5" L x 5.75" diameter 16 oz singed duo-density polyester felt bags (4112 total square feet) and a 50 hp belt drive fan generating 20,000 ACFM (for an air-to-cloth ratio of 4.86:1). This unit exhausts at greater than ambient (140 deg F). This unit controls Finish Mill KM1(B005192).

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). 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. Pressure differential across the bags (monthly);
   b. Baghouse stack visible emissions determination using Method 22 (monthly or as otherwise allowed by 40 CFR 63.1350);
   c. Bags and bag suspension system inspection (quarterly); and
   d. Bag replacements and repairs.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This baghouse shall discharge no more than 1.48 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dSCF 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This equipment shall be operated concurrently with Finish Mill KM1 (District permit B005192). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP # 3C – FINISH GRINDING (FM) #11

69. <u>FINISH MILL (KFM11) – MDAQMD PERMIT # B000053; consisting of: Controls:</u> 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.
Clinker Bin - JGH11 (119,680 gallons)
Gypsum Bin - JGH11 (19,942 gallons)
Fringe Bin - JFH11 (19,942 gallons)
2.0 Vibrating bin bottom (vibra screw) - Gypsum bin - JGH11VBJ
2.0 Vibratory feeder (Eriez) - Gypsum – ABDN
4.0 Vibratory feeder (Eriez) - Clinker bin – ABDN
2.0 Vibratory feeder (Eriez) - Fringe bin - KWF11VF
0.5 Weightbelt feeder (Autoweigh) - Gypsum - KWF11G

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

1. 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
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

70. AIR POLLUTION CONTROL EQUIPMENT (KBH 13) – MDAQMD PERMIT # C000054; consisting of:

Serving Finish Mill No. 11 (B000053)
Baghouse, ICA Pulse Clean model 625-7, 280 Filter Tubes, 125 hp Rees Fan, 4,375 ft2, 25,000 cfm - KBH 13

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

71. AIR POLLUTION CONTROL EQUIPMENT (KBH 15) – MDAQMD PERMIT # C000055; consisting of:

Serving Finish Mill No. 11 (B000053).
Baghouse, ICA Pulse Clean model 625-2, 80 Filter Tubes, 40 hp Rees Fan, 1,250 ft2, 7,000 cfm - KBH15

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

72. AIR POLLUTION CONTROL EQUIPMENT (KBH 11) – MDAQMD

PERMIT # C000056; consisting of:
Serving Clinker Feed System, Elevators (B000053).
Baghouse, ICA Pulse Clean model 625-2 (III), 80 Filter Tubes, 25 hp Exhaust Fan, 1,250 ft2, 6,600 cfm - KBH11

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

73. **AIR POLLUTION CONTROL EQUIPMENT (JBH 14) – MDAQMD PERMIT # C000057; consisting of:**
Serving Clinker Feed System Bins (B000053).
Baghouse, Mikropul Pulse Jet dust collector, 424 ft2, 1,500 acfm, 7.5 hp - JBH14

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

74. AIR POLLUTION CONTROL EQUIPMENT (JBH 15) – MDAQMD PERMIT # C000058; consisting of:
Serving Gypsum Feed System Bins (B000053).
Baghouse, ICA Pulse Clean model 5-9, nine Filter Tubes, 65 ft2 cloth area, 400 cfm, 3 hp - JBH15

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

75. AIR POLLUTION CONTROL EQUIPMENT (KBH 14) – MDAQMD PERMIT # C002011; consisting of:

Serving Finish Mill (KFM-11) (B000053).
Baghouse: KBH14 Sepax classifier product recovery, Mikropul pulse jet model 680K-12-30TR 28. Cloth area: 28,824 ft2. A/C ratio: 3.98 @ 190 degrees F. Air Flow Rate: 115,000 cfm.
700.0 Fan: Buffalo Forge model 1460-L-25 ID, @ 700 hp
700.0

1. The owner/operator (o/o) shall operate this particulate control/process stream equipment in strict accord with the manufacturer's specifications and/or sound engineering principles. The operating instructions shall be immediately available for use by the operator and made available to the District upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. 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 years. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The baghouse shall be fitted with an airlock on each material discharge port. [District Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]
4. 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

76. AIR POLLUTION CONTROL EQUIPMENT (KBH 12) – MDAQMD PERMIT # C002012; consisting of:

Serving Finish Mill (KFM 11) (B000053).
Baghouse, Mikropul Pulse Jet model 2385-12-20TR. Cloth area: 3,364 ft2. A/C Ratio: 5.9 @ 20 degrees F. Air flow rate: 20,000 cfm - KBH12
75.0 Buffalo Forge model 600 BL @ 75 hp
75.0

1. The owner/operator (o/o) shall operate this particulate control/process stream equipment in strict accord with the manufacturer's specifications and/or sound engineering principles. The operating instructions shall be immediately available for use by the operator and made available to the District upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. 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 years. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The baghouse shall be fitted with an airlock on each material discharge port. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP # 3D – FINISH GRINDING (FM #12)

77. FINISH MILL – (KFM –12) – MDAQMD PERMIT # B001093; consisting of:

Control: C001285 (KBH17); C001286 (KBH18); C001279 (KBH16); C008660 (KBH 19)
5.0 Bin Vibrator - JTS2VB1
8.0 Weigh Belt Feeders (2 @ 4 hp ea.) - KWF12C & G
25.0 Belt Conveyor (15 & 10 hp) - KBC3 & 4
12.5 Screw Conveyor, Dust Return System - KBH1BSC
15.0 Bucket Elevator to Finish Mill - KE15
100.0 Bucket Elevator from Finish Mill - KE16
4523.5 Finish Mill No. 12 Ball -- KFM12
11.0 Airslide blower - KAC18
Air Separator - KAS12:
275.0 Drive
300.0 Fan
2.0 Lubricator
50.7 Cement Cooler - 42-CCC-2
550.0 Pneumatic Conveyor - 42P11
2000.0 Roll Press
250.0 Cement Pump LP11
700.0 Fan-exhaust KBH 19
FM 12 Product Collector
8827.7

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment (C001285, C001286, and C001279). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

78. BAGHOUSE (KBH 16) – MDAQMD PERMIT # C001279; consisting of:

Serves (KfM - 12) (B001093).
Baghouse, FM-12, Flex Kleen model 120 WRTC-48 (III), 734 ft2 cloth area, 3,500 cfm, 25 hp - KBH 16

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

79. BAGHOUSE (KBH 17) – MDAQMD PERMIT # C001285; consisting of:

Serves (KFM - 12) (B001093). Baghouse, FM-12, Flex Kleen model 120 WRTC-48 (III), 734 ft2 cloth area, 3,500 cfm, 25 hp - KBH17

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

80. BAGHOUSE (KBH 18) – MDAQMD PERMIT # C001286; consisting of:

Serves (KFM - 12) (B001093).
Dust Collector, MikroPul pulse jet type with (480) 4.5" dia x 10' felted polyester bags, 5,654 sq cloth area, 37,400 cfm solyvent-ventec GP165 S1A exhauster 42F34, 201, 200 hp - KBH18

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

81. BAGHOUSE- (KBH19) - MDAQMD PERMIT # C008660; consisting of:

Amerex 5408, pulse type, model (2) RP-12-817D6 (19X43), 129,470 acfm, 700hp Robinson 5399 fan, with 1634- 16 oz Polyester Bags operating at 162 degrees F, and with an Air-to-Cloth Ratio of 4.2:1. This unit serves Finish Mill #12 SKS air separator process (B001093).

1. Operation of this baghouse shall meet all applicable sections of the Federal Portland Cement Manufacturing Industry MACT standard, 40 CFR 63 Subpart LLL, including but not necessarily limited to those sections referenced herein. In those instances where the conditions below conflict with the MACT standard, the MACT standard shall govern. [Rule 204, 40 CFR 63.1343]

2. The owner/operator shall monitor opacity by conducting daily visual emissions observations in accordance with the procedures of Method 22 of 40 CFR 60 appendix A. The duration of the Method 22 test shall be six minutes. If visible emissions are observed, the owner/operator must:
a) Initiate, within one-hour, the corrective actions specified in the site specific operating and maintenance plan developed in accordance with 40 CFR 63.1350(a)(1) and (a)(2); and
b) Within 24 hours of the end of the Method 22 test in which visible emissions were observed conduct a follow-up Method 22 test. If visible emissions are observed again, conduct a visual opacity test in accordance with Method 9 of 40 CFR 60 appendix A. When required, the duration of the Method 9 test shall be thirty minutes. [Rules 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall institute a program of maintenance, visible emission determinations, and monthly visual inspections of all associated equipment, including the bags and their suspension systems, and measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. The o/o shall log all applicable items and all daily visible emissions observations, and any Method 9 tests conducted. The log shall also include bag replacements, repairs and non-scheduled maintenance information. The log shall be kept current for 5 years, and on-site for a minimum of 2 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. This baghouse shall operate concurrently with the Finish Mill #12 SKS Air Separator Process under district permit B001093. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

9. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

10. The o/o shall comply with District Rule 430, Breakdown Provisions, with regard to equipment malfunctions, which result in excess emissions. [District Rules 204 and 430]

GROUP #4 – SHIPPING

82. CEMENT, BULK LOADOUT – MDAQMD PERMIT # B001683; consisting of:

Group 1 Silos. Control: C000068 (MBH2) 10 hp
40.0 Screw Conveyors @ 20 hp ea (MSC1, 2)
25.0 Elevator (ME1)
65.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000068. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

83. AIR POLLUTION CONTROL EQUIPMENT (MBH 2) – MDAQMD PERMIT # C000068; consisting of:

Serving Cement Shipping (B001683).Baghouse, Norblo No. 112-AS, 1,325 ft2 cloth area, 2,300 cfm, 10 hp - MBH2

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the

manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

84. TRANSFER EQUIPMENT – MDAQMD PERMIT # B001784; consisting of:

From Cement Storage to Truck Loading. Control: C000075 (MBH6) 20 hp.
25.0 Screw Conveyor - MSC2
25.0 Elevator – ME2
10.0 Rotary Screen – MRS1
60.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C000075. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

85. AIR POLLUTION CONTROL EQUIPMENT (MBH 6) – MDAQMD PERMIT # C000075; consisting of:

Serving Bulk Truck Cement Shipping (B001784).
Baghouse, Norblo, 2,944 ft2 cloth area, 6,000 cfm, 20 hp - MBH6

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

86. SHIPPING – BULK CEMENT – MDAQMD PERMIT # B001640; consisting of:

Groups I and II Silos. Control: C001684 (MBH1) 15 hp.
27.5 Screw Conveyors - MSCS4, 5, 10
7.5 Air Slide – MG2AC1

35.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001684. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

87. BAGHOUSE (MBH 1) – MDAQMD PERMIT # C001684; consisting of:

Serves Bulk Loadout System (B001640).
Baghouse, Mikropul model 81S-8TR, 763 ft2, 470 cfm, 15 hp - MBH1

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

88. CEMENT WITHDRAWAL SYSTEM – NORTH PACKOUT – MDAQMD PERMIT # B001480; consisting of:

Control: C001481 (NBH1) 15 hp.
Silo Withdrawal Pneumatic Gravity Conveyors (Airslides), operated one at a time.
Capacity: 75-ton/hr ea. - NAC1, 2, 3, 4
15.0 Aeration Blower (Aerzen), 432 cfm (Free Air), @ 4.3 psig - NSA2B1
40.0 Aeration Blowers (Aerzen), @ 20 hp ea, 280 cfm (Free Air) @ 8.7 psig - NSA2B2, B5
6.0 Aeration Blowers (IEN), @ 3 hp ea, 210 cfm (Free Air) @ 0.9 psig - NB7, 8
200.8 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
Alleviator Cyclone - NA8
3.0 Screen, Vibratory (Haver-Niagara), 1,000 x 2,000 mm Pack Bin (East), 750 ft3 - _____NPM2VS
264.8

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001481. [Rule 204, 40 CFR

52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

89. BAGHOUSE (NBH 1)-MDAQMD PERMIT # C001481; consisting of:

Serves Cement Withdrawal System (North) (B001480).
Baghouse, Flex Kleen model 120 BUTC-16 (III) 245 ft2, 1,000 cfm, 15.75 hp - NBH1

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

90. PACKAGING SYSTEM – MDAQMD PERMIT # B001484; consisting of:

Line "A" (West). Control: C001485 (NBH3) 60.75 hp
Rotary Air Locks, Packer - NPM1RF1
6.0 Feed, Haver units in parallel @ 1.5 hp ea - NPM1RF2
30.0 Bag Packing Machine, inline, 4 spout, Haver & Boecker type 5054-4BB, 30 hp - NPM1
2.0 Packer Takeaway Conveyor, flat wire mesh type, 2 hp - NPM1BC1
1.5 Belt Conveyor, flat, 1.5 hp - NPM1BC2
4.5 Bag Cleaning Conveyor Station, Beumer "Torture Chamber" type, @ 3 hp, 1,000 cfm (Free Air) 19.5" W.G. Blower - NPM1CS
0.8 Live Roller Conveyor - NPM1RC1
1.0 Check Weight Scale Belt, Bockels - NPM1WB
0.8 Live Roller Conveyor - NPM1RC2
0.5 Rejector Belt Conveyor - NPM1BC3
1.5 Bag Flattener - NPM1LBF & NPM1BVF
0.5 Packing Conveyor - NBP1PSC
17.0 Palletizer, Moellers model PLS-1 - NBP1
2.0 Recycle Screw Conveyor - NPM1SC
30.0 Recycle Pneumatic Conveying System, 30 hp, 365 cfm - NPM1RP
(Free Air) Blower, 10.1 psig - NPM1RPB
98.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001485. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

91. BAGHOUSE (NBH 3) – MDAQMD PERMIT # C001485; consisting of:

Serves Package System "A" (B001484).
Baghouse, Flex Kleen model 120 WRTC-132 (III), 2,020 ft2, 12,000 cfm, 60 hp, 0.75hp Rotary Airlock - NBH3

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

92. CEMENT WITHDRAWAL SYSTEM – MDAQMD PERMIT # B001482; consisting of:

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 Aeration Blower (Aerzen), 432 cfm (Free Air), @ 4.3 psig - NSA2B3
40.0 Aeration Blowers (Aerzen), @ 20 hp ea, 280 cfm (Free Air) @ 8.7 psig - NSA2B4, B6
6.0 Aeration Blowers (IBAU), @ 3 hp ea, 210 cfm (Free Air) @ 0.9 psig - NB9, 10
200.8 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
Alleviator Cyclone - NA7
3.0 Screen, Vibratory (Haver-Niagara), 1,000 x 2,000 mm Pack Bin (East), 750 ft3 - PM1VS
264.8

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C001483. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

93. BAGHOUSE (NBH 2) – MDAQMD PERMIT # C001483; consisting of:

Serves Cement Withdrawal System (South) (B001482).
Baghouse, Flex Kleen model 120 BUTC-16 (III) 245 ft2, 1,000 cfm, 15.75 hp - NBH2

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

94. PACKAGING SYSTEM – MDAQMD PERMIT # B001486; consisting of:

Line "B" (East). Control: C001487 (NBH4) 60.75 hp.
Rotary Air Locks, Packer - NPM2RF1
6.0 Feed, Haver units in parallel @ 1.5 hp ea - NPM2RF2
3.0 Bag Packing Machine, inline, 4 spout, Haver & Boecker type 5054-4BB, 30 hp - NPM2
2.0 Packer Takeaway Conveyor, flat wire mesh type, 2 hp - NPM2BC1
1.5 Belt Conveyor, flat, 1.5 hp - NPM2BC2
4.5 Bag Cleaning Conveyor Station, Beumer "Torture Chamber" type, @ 3 hp, 1,000 cfm (Free Air) 19.5" W.G. Blower - NPM2CS
0.8 Live Roller Conveyor - NPM2RC1
1.0 Check Weight Scale Belt, Bockels - NPM2WB
0.8 Live Roller Conveyor - NPM2RC2
0.5 Rejector Belt Conveyor - NPM2BC3
1.5 Bag Flattener - NPM2LBF & NPM2VBF
0.5 Packing Conveyor - NPM2PSC
17.0 Palletizer, Moellers model PLS-1 - NBP2
2.0 Recycle Screw Conveyor - NPM2SC
30.0 Recycle Pneumatic Conveying System, 30 hp, 365 cfm (Free Air) 10.1 psig Blower - NPM2RP
71.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control

equipment covered by valid District permit C001487. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

95. BAGHOUSE (NBH 4) – MDAQMD PERMIT # C001487; consisting of:

Serves Package System "B" (East) (B001486).
Baghouse, Flex Kleen model 120 WRTC-132 (III), 2,020 ft2, 12,000 cfm, 60 hp, 0.75 hp Rotary Airlock - NBH4.

1. Particulate emissions shall not exceed a discharge grain loading of 0.02 gr/ACF. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

96. SHIPPING, BULK CEMENT – MDAQMD PERMIT # B001954; consisting of:

Group 3 Silos. Control: C004865 (MBH3) 40 hp.
40.0 Air Slide System
30.0 Bucket Elevator – ME6
15.0 Rotary Screen – MRS3
Air Slide System
85.0

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C004865. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

97. BAGHOUSE (MBH3) – MDAQMD PERMIT # C004865; consisting of:

Serving the Group 3 silos bulkloading station (B001954) with the following specifications:
Mfg. by Flex-Kleen
Model No.: 120-WRTC-195 Arr III
Exhaust Fan: 40 hp & 15,000 cfm
A/C: 5.0:1 & 2,982 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40

CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with Group 3 silos bulkhoading station covered in District permit B001954. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [District Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

98. SHIPPING – BULK, CEMENT – MDAQMD PERMIT # B000066; consisting of:

Group 4 Silos. Control: C004864 (MBH4) 30 hp; C000071 (MBH5) 30 hp; C008438 (MBH5B) 15 hp.
45.0 Air Slide Systems
120.0 Elevators, 2 @ 60 hp ea. – ME4, 5
30.0 Rotary Screens, 2 @ 15 hp ea – MRS4, 5
35.0 Air Slides, 2 @ 10 hp ea, 1 @ 15 hp
230.0

1. 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

99. AIR POLLUTION CONTROL EQUIPMENT (MBH 5) – MDAQMD PERMIT # C000071; consisting of:

Serving Cement Shipping (B000066). Baghouse, Pulse Jet type, 360 bags @ 5.8" dia x 8' L, 4,370 ft2, 2.29 A/C ratio, 30 hp - MBH5

1. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

100. BAGHOUSE (MBH 4) – MDAQMD PERMIT # C004864; consisting of:

Serving the Group 4 silos bulkloading station (B000066) with the following specifications:
Mfg. by Flex-Kleen
Model No.: 120-WRTC-252 Arr III
Exhaust Fan: 30 hp & 20,000 cfm
A/C: 5.2:1 & 3,856 ft2

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated concurrently with the Group 4 silos bulkloading station covered in District permit B000009. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

101. BAGHOUSE (MBH5B) – MDAQMD PERMIT # C008438; consisting of:

Airtrol Model 132BSWS120, Pulse-Jet, stack height of 125 ft, diameter of 2.0 ft, airflow of 11500 acfm, velocity of 61 ft/second at 120 degrees F, 15 bhp motor, 132 Polyester bags, 2073 ft2 of cloth area and Air-to-Cloth ratio of 5.5:1, maximum emission rate of 0.01 grains PM-10/dscf serving cement shipping Permit (B000066).

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, which embraces at least weekly screenings of visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) and regular (at least monthly, but to be determined with experience with this unit) measurements of the pressure differential

across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall be used to control emissions from Cement Railcar Shipping Upgrade. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rules 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

102. CEMENT STORAGE BIN, SCALES & LOADOUT – MDAQMD PERMIT # T007369; consisting of:

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 (MG3LS16BHI)

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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), and C008193 (MG3LS16BHI). [District Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

103. BAGHOUSE – MG3SB1BH1 – MDAQMD PERMIT # C007370; consisting of:

Model DCL BV-49, Pulse-Jet, airflow of 2800 acfm at 110 degrees F, 10 hp motor, 37 Polyester Bags, 490 ft2 of cloth area and Air-to-Cloth ratio of 5.7:1

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from one of 6 loading spouts. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

104. BAGHOUSE (MG3LS11BH1) – MDAQMD PERMIT # C007371; consisting of:

Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from one of 6 loading spouts. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

105. BAGHOUSE- MG3LS12BH1 – MDAQMD PERMIT # C007372; consisting of:

Model DCL DCL FS-467, Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1.

1. This baghouse controls emissions from one of 6 loading spouts. [Rule 204, 40 CFR

52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

106. BAGHOUSE (MG3BH10) – MDAQMD PERMIT # C008185; consisting of:

Model DCL DC64-100, Pulse-Jet, airflow of 4000 acfm at 110 degrees F, 15 hp motor, 59 Polyester Bags, 768 ft2 of cloth area and Air-to-Cloth ratio of 5.2:1

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

107. BAGHOUSE (MG3LS13BH1) – MDAQMD PERMIT # C008190; consisting of:

Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS13. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR

52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

108. BAGHOUSE (MG3LS14BH1) – MDAQMD PERMIT # C008191; consisting of:

Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS14. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

109. BAGHOUSE (MG3LS15BH1) – MDAQMD PERMIT # C008192; consisting of:

Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS15. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rule

204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

110. BAGHOUSE (MG3LS16BH1)- MDAQMD PERMIT # C008193; consisting of:

Model DCL FS-467; Pulse-Jet, airflow of 2000 acfm at 110 degrees F, 7.5 hp motor, 32 Polyester Bags, 467 ft2 of cloth area and Air-to-Cloth ratio of 4.3:1

1. This baghouse shall operate as part of the process known as the Bulk Unloading System to control emissions from Loading Spout MG3LS16. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall maintain, on-site, an inventory of replacement bags sufficient to ensure compliance with applicable rules of District Regulation IV. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Regular emissions testing for demonstration of compliance with District rules 404 and 405 is not required, however, the District may require emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall operate and maintain this baghouse in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP # 5 – 40 CFR 63 Subpart LLL Related Equipment

111. CKD - CKD HANDLING SYSTEM- MDAQMD PERMIT # B011942 consisting of:

250	Rail Cars unload blower
0.75	Unloade blower - motor 0.75 HP Unload Blower cooling
15	Silo Baghouse #1 15 HP Silo Baghouse #1 Exhaust Fan - motor Rail Receiving Silo
10	Silo Aeration Fan 1 - motor
10	Silo Aeration Fan 2 - motor
5	Flow meters Vent Fan 1 - motor

5	FM1 Screw Conveyor 1 - motor
60	FM1 transport blower - motor
0.75	FM1 transport blower cooling fan - motor
5	FM 11 Screw Conveyor 11 - motor
60	FM 11 transport blower - motor
0.75	FM 11 transport blower cooling fan - motor
5	FM 12 transport blower - motor
60	FM 12 transport blower - motor
0.75	FM 12 transport blower cooling fan - motor
60	Standby 1 transport blower - motor
0	Rail Load out area
594	Bhp

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. [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. [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. [Rule 204; Rule 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. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10.

Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

111. CKD - RIVER SILO BAGHOUSE - MDAQMD PERMIT # C011943

consisting of: 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).

1. 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. [Rule 204]

2. 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].

3. This baghouse shall not discharge PM10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description. [Rule 1302]

4. 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. 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. Average PM emissions in lb/ton of clinker per Condition 12 (Not To Exceed 0.10 until September 9, 2015 when the PM shall Not Exceed 0.07); NOTE AVERAGE NEEDS TO BE DEFINED. [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years. [Rule 204]

7. 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. [Rule 1302]

8. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions. [Rule 1302]

9. 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. [Rule 1303 - NSR Requirements]

10. Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this clinker cooler baghouse shall not exceed 0.10 lb/ton of clinker; September 9, 2015 and subsequent PM shall not exceed 0.07 lb/ton of clinker. [40 CFR part 63 subpart LLL section 63.1343]

11. No Later than September 9, 2015, PM shall be continuously monitored with a properly functioning PM Monitor maintained and calibrated in accordance with manufacturers requirements and the requirements of subsection 63.1350(f)(4)(i). [Rule 1302]

12. This baghouse shall be equipped with a properly functioning Continuous Opacity Monitor (COM) that is installed, maintained and calibrated per manufacturer’s recommendations. COM opacity shall not exceed 10% opacity at any time. [40 CFR 63 Subpart LLL]

13. An initial and annual PM performance test performed in accordance with EPA Method 5 or 5I consisting of three 1-hr tests Page 2 of 3 Permit: C011943 Issue Date: 11/06/2013

14. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

15. 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. [Rule 204]

112. AFSC SYSTEM BAGHOUSE - 1 - MDAQMD PERMIT # C011945

consisting of: Alternative Fuels - Storage Hall and Conveyance System Baghouse with a Design Gas Flow rate of 2800 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.

1. 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. [Rule 204]

2. 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].

3. This baghouse shall not discharge PM10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description. [Rule 1302]

4. 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. 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. Average PM emissions in lb/ton of clinker per Condition 12 (Not To Exceed 0.10 until September 9, 2015 when the PM shall
   Not Exceed 0.07); NOTE AVERAGE NEEDS TO BE DEFINED.
   [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years. [Rule 204]

7. 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 below TBD inches or water column. [Rule 1302]

8. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions. [Rule 1302]

9. 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 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. [Rule 1303 - NSR Requirements]

10. No Later than September 9, 2015, PM shall be continuously monitored with a properly functioning PM Monitor maintained and calibrated in accordance with manufacturers requirements and the requirements of subsection 63.1350(f)(4)(i). [Rule 1302]

11. This baghouse shall be equipped with a properly functioning Continuous Opacity Monitor (COM) that is installed, maintained and calibrated per manufacturer's recommendations. COM opacity shall not exceed 10% opacity at any time. [40 CFR 63 Subpart LLL]

12. An initial and annual PM performance test performed in accordance with EPA Method 5 or 5I consisting of three 1-hr tests shall be conducted within 90 days of this equipment becoming operational and annually thereafter. This condition is NOT required once the PM monitor is installed and operating properly. [Rule 204]

13. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

14. 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. [Rule 204]

113. AFSC SYSTEM BAGHOUSE - 2 - MDAQMD PERMIT # C011946

consisting of: Alternative Fuels - Storage Hall and Conveyance System Baghouse with a Design Gas Flow rate of 2800 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.

1. 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. [Rule 204]

2. 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].

3. This baghouse shall not discharge PM10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description. [Rule 1302]

4. 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. 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. Average PM emissions in lb/ton of clinker per Condition 12 (Not To Exceed 0.10 until September 9, 2015 when the PM shall
Not Exceed 0.07); NOTE AVERAGE NEEDS TO BE DEFINED. [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years. [Rule 204]

7. 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 below TBD inches or water column. [Rule 1302]

8. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions. [Rule 1302]

9. 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 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. [Rule 1303 - NSR Requirements]

10. No Later than September 9, 2015, PM shall be continuously monitored with a properly functioning PM Monitor maintained and calibrated in accordance with manufacturers requirements and the requirements of subsection 63.1350(f)(4)(i). [Rule 1302]

11. This baghouse shall be equipped with a properly functioning Continuous Opacity Monitor (COM) that is installed, maintained and calibrated per manufacturer’s recommendations. COM opacity shall not exceed 10% opacity at any time. [40 CFR 63 Subpart LLL]

12. An initial and annual PM performance test performed in accordance with EPA Method 5 or 5I consisting of three 1-hr tests shall be conducted within 90 days of this equipment becoming operational and annually thereafter. This condition is NOT required once the PM monitor is installed and operating properly. [Rule 204]

13. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

14. 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. [Rule 204]

GROUP # 6 – MISCELLANEOUS EQUIPMENT

115. GASOLINE DISPENSING FACILITY (NON-RETAIL) – MDAQMD PERMIT # N001452; consisting of:

A) Tanks – Number of Tanks 2

Tank No.	1	2
1. Material Stored	87U	Diesel
2. Volume Gallons	15,000	15,000
3. Above/Underground	A	A

B) Dispensing Equipment
1. Gasoline Dispensing Nozzle-Product Rating: 1
2. Diesel Dispensing Nozzles: 3
3. Phase II Vapor Recovery System: Balance

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. [Rules 461]

3. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the 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. [Rule 204; EO 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
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. [Rule 204]

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. [Rule 204]

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. [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. [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 CCCCC; in the event of conflict the more stringent requirements shall govern. [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 [Rule 204]

116. INACTIVE: DIESEL IC ENGINE, STATIONARY, EMERGENCY ELECTRICAL GENERATOR – MDAQMD PERMIT # E004746; consisting of: Year of Manufacture: Unknown; Tier 0

One Caterpillar, Diesel fired internal combustion engine, Model No. 3508 DITA and Serial No. 12F00507, After Cooled, Turbo Charged, producing 1337 bhp with 8 cylinders at 1800 rpm while consuming a maximum of TBD gph. This equipment powers a generator.

117. <u>CDK RIVER SILO – MDAQMD PERMIT # T011944; consisting of:</u> 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. [Rule 1303]

2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications. [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. [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. [Rule 204]

5. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

CEMEX - Black Mountain Quarry Plant

A. EQUIPMENT DESCRIPTION

GROUP # 1 – CRUSHING SYSTEM

1. CRUSHER - PRIMARY LIMESTONE – MDAQMD PERMIT # B000080; consisting of:

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 Crusher, motor – BCG
150.0 Belt Conveyor – BBC1
500.0

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This equipment is limited to processing 21,600 tons of material in any calendar day. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

3. This equipment shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 60.670]

4. 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(c))
   b. Transfer points and all other fugitive emissions - ten percent (40 CFR 60.672(b))
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 60.672]

5. 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. 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.
   [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. CRUSHER - SECONDARY LIMESTONE – MDAQMD PERMIT # B000081; consisting of:

2.0 Scavenger Drag Conveyor - BAFC1DCC
2.0 Scavenger Drag Conveyor - BAFC2DCC
30.0 Apron Feed Conveyor - BAFC1
30.0 Apron Feed Conveyor - BAFC2
40.0 Belt Conveyor - BBC2
40.0 Belt Conveyor - BBC5
15.0 Vibrating Screen - BVS1
15.0 Vibrating Screen - BVS2
600.0 Impactor, Pennsylvania - BIC1
600.0 Impactor, Pennsylvania - BIC2
30.0 Belt Conveyor - BBC3
30.0 Belt Conveyor - BBC6
30.0 Belt Conveyor - BBC8
7.5 Belt Conveyor - CBC1
15.0 Belt Conveyor - CBC3
75.0 Belt Conveyor - CBC4
42.0 Sample System
60.0 Belt Conveyor - CBC5
20.0 Belt Conveyor - CBC6
75.0 Belt Conveyor - CBC8
53.0 Air Compressors - 50 hp and 3 hp
1811.5

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this equipment in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall not process more than 21,600 tons of material per calendar day. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

4. This equipment shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 60.670]

5. 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(c))
   b. Transfer points and all other fugitive emissions - ten percent (40 CFR 60.672(b)) [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 60.672]

6. 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. Feed rate to this equipment (in tons per calendar day);
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.
[Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. DUST CONTROL SYSTEM (BSS01) - MDAQMD PERMIT # C002081; consisting of: 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 this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall operate concurrently with the primary crushing system (B000080), the secondary crushing system, and transport belts to CBC4 (B000081), as applicable. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. DUST CONTROL SYSTEM (BSS02) - MDAQMD PERMIT # C002082; consisting of: 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 this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall operate concurrently with the secondary crushing system (B000081) and transport belts to CBC9 and CBC10 (B001666), as applicable. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. BAGHOUSE (BBH1) - MDAQMD PERMIT # C008894; consisting of:
A Mikropul Pulse-jet Model 289S10TR baghouse, equipped with 289 polyester bags

(3405 square feet of area) and a 60 hp fan generating 20,000 ACFM (for an air to cloth ratio of 5.9:1). This device vents the secondary crushing system (B000081).

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the secondary crushing system (B000081). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This baghouse shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 60.670]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 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 at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct a periodic contingent compliance test for PM10 (USEPA Method 5 or equivalent and 9). Testing shall be performed during any calendar year the baghouse had a recorded stack opacity violation (starting in 2005) and the test results shall be submitted to the District not more than six (6) weeks after the conclusion of the applicable year. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. BAGHOUSE (BBH2) - MDAQMD PERMIT # C008895; consisting of:

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).

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the primary crushing system (B000080). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 52.220(c)(39)(ii)(B), 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 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 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 at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct an initial compliance test for PM10 and opacity (USEPA Method 5 or equivalent and 9). Testing shall be performed in 2005 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. LIMESTONE SHIPPING – MDAQMD PERMIT # B000082; consisting of:

Bulk by Rail.

57.6 Vibrating Feeders – CVF1 & CVF2
75.0 Belt Conveyor – CBC7
132.6

1. 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. [Rules 204, 401, 402, and 403,, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. LIMESTONE STACKING SYSTEM – STORAGE – MDAQMD PERMIT # B001666; consisting of: Controls: C002081 (BIC1DS), C002082 (BIC2DS), and C007337 (CBH3), all under B000081.

0.0 Drop Tube from CBC8
20.0 Belt Conveyor – CBC9
125.0 Belt Conveyor – CBC10
75.0 Belt Conveyor – CBC11
220.0

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This equipment shall be operated in compliance with 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 60.670]

4. 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 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 60.672(b)(2)].

5. 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.
[Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP # 2 – RAW GRINDING: RAW MILLS 1 & 2 LIMESTONE RECLAIM & STORAGE

9. RAW MATERIAL SYSTEM – NO. 1 – MDAQMD PERMIT # B000083; consisting of:

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 Belt Conveyor – DBC4
28.0 Belt Conveyor – DBC5,6 (25 + 3 hp)
2500.0 Raw Mill No. 1 – DRM1 (2 x 1,250 hp)
4.0 Belt Feeder – DWF5 (3 + 1 hp)
150.0 Bucket Elevator – DE1
12.5 Dust Return System
310.0 Air Separators - DAS1,2 (2 x 125 + 30 hp)
650.0 Fuller Kinyon Pump - DP1 (400 + 250)
4.5 3 Rotary Locks @ 1.5 hp ea.
1.0 1 Rotary Lock
3685.0

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

10. AIR POLLUTION CONTROL EQUIPMENT (DBH3) – MDAQMD

PERMIT # C000087; consisting of: Serving Raw Mill System 27RM1 (B000083). DBH3 - Baghouse, Fabric Filters Corp., model 120-WRTC-80III on line, from DBC-4 to DBC-5, 120 16-oz polyester felt bags 5.8" dia x 10' L, 2,252 sq.ft., 0.9 A/C ratio. 19F2 - 2,500 ACFM fan, American Standard, size 15, type E, model 15-249, with 15 hp motor.

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

11. AIR POLLUTION CONTROL EQUIPMENT (EBH1) – MDAQMD PERMIT # C000095 consisting of:

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 operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

12. AIR POLLUTION CONTROL EQUIPMENT (EBH3) – MDAQMD PERMIT # C001294 consisting of:

Serving No. 1 raw mill system DRM12 (B00083). EBH3 - Dust Collector System, Kiln No. 1 homogenizing silo No. 2 vent, Pulse jet type with 10' polyester felt bags, 15,000 CFM (max intermittent), 2,525 sq.ft. cloth area, A/C ratio 5.9:1, 60 hp, 1,332 RPM Buffalo 60 MW fan. 60 hp.

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

13. AIR POLLUTION CONTROL EQUIPMENT (DBH1) – MDAQMD PERMIT # C001667; consisting of: Serving No. 1 Raw Mill (B000083). DBH1 - Baghouse, Southwest PC Mark VII, 7 compartments, 525 - 6"x166" fabric bags, 11,393 SF, 26,000 CFM, 75 hp.

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

14. AIR POLLUTION CONTROL EQUIPMENT (EBH2) – MDAQMD PERMIT # C001668; consisting of: 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 operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

15. BAGHOUSE (DBH6) – MDAQMD PERMIT # C008244; consisting of: Flex-Kleen 12U-BVT-25 (III), Pulse-Jet, airflow of 2000 acfm at ambient temperature, 20 bhp motor, 25 Polyester Bags, 383 ft2 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 install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, which embraces at least weekly screenings of visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) and regular (at least monthly, but to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Raw Material Grinding System, under valid District permit number B000083 at transfer point DB5/DB6. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

16. RAW MILL NO. 2 SYSTEM – MDAQMD PERMIT # B001084; consisting of:

Controls: C001292 (DBH5) 20 hp; C001293 (DBH2) 1000 hp; C001295 (EBH4) 100 hp; C001296 (DBH4) 5 hp; and C003249 (QBH1) 3 hp.
4.0 Vibrating Feeder (2 x 2 hp) – DVF4, 5, 6

8.0 Weight Feeders (4 x 2 hp) – DWF6-9, 12
4.0 Weight Feeder (3 + 1) DWF10
10.0 Conveyor Belt, Tunnel
10.0 Conveyor Belt, Covered
20.0 Conveyor Belt, Covered
20.0 Conveyor Belt, Covered
15.0 Conveyor Belt, Covered
4545.7 No. 2 Raw Mill, Ball (inching Drive @ 125 hp)
19.0 Conveyor, Pneu (4, 7.5, 7.5 hp)
5.0 Conveyor, Pneu
125.0 Bucket Elevator
500.0 Air Separator
Cyclone
7.5 Conveyor, Screw
750.0 Conveyor, Pneu (4@250, 1 stand-by)
83.0 Aux. Heater (50+30+3)
4.5 3 Rotary Air Locks @ 1.5 hp
5.0 Conveyor, Screw
Additive Feed Bin
5.0 Aeration Blower
3.0 Rotary Feeder
6143.7

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

17. AIR POLLUTION CONTROL EQUIPMENT (DBH5) - MDAQMD PERMIT # C001292; consisting of:

Serving raw mill system DRM2 (B001084). DBH5 - Dust Collector System, DBC-8 to DBC-9 transfer, Flex Kleen 12U-BVT-25 (III), serial No. 40-53-20716, Pulse Jet type with polyester felt media, 2,000 CFM, 383 sq.ft. A/C ratio 5.22:1 with 25 5.84"x10' bags. 20 hp.

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

18. AIR POLLUTION CONTROL EQUIPMENT (DBH2) - MDAQMD PERMIT # C001293; consisting of: Serving raw mill system DRM2 (B001084). DBH2 - Dust Collector System, No. 2 Raw Mill vent plus RM nuisance dust control, Pulse jet type with 12' polyester felt bags, 95,000 CFM, 16,961 sq.ft., A/C ratio 5.60:1 includes 700 hp, 1,180 RPM Solvent-Ventec fan; 1,000 hp.

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

19. AIR POLLUTION CONTROL EQUIPMENT (EBH4) - MDAQMD PERMIT # C001295; consisting of: Serving No. 2 Raw Mill System 27RM2 (B001084). EBH4 - Dust Collector System, Kiln No. 2 homogenizing silo vent, pulse jet type with 10' polyester felt bags, 20,000 CFM (max intermittent), 3.443 sq.ft. cloth area, A/C ratio 5.8:1 100 hp, 1,113 RPM Buffalo 70 MW fan. 100 hp.

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

20. <u>ACTIVATED CARBON INJECTION SYSTEM- KILN Q2 - MDAQMD PERMIT # C012650 consisting of:</u> 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.

1. 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. [Rule 204]

2. System dust collectors 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

3. 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. [Rule 1302]

4. 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. Weekly reading of dust collectors' pressure drop, date and value; b. Quarterly silo bin sock and dust collector inspection date and results; c. Date of bin sock and or cartridge filter replacements; d. Date and nature of any system repairs; and, e. Average PM-10 emissions in lb/ton of clinker per Condition 12 (Not To Exceed 0.10 until September 9, 2015 when the PM shall Not Exceed 0.07); NOTE AVERAGE NEEDS TO BE DEFINED. [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be

retained for a minimum period of five (5) years. [Rule 204]

7. The systems air pollution control device's 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. [Rule 1302]

8. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions. [Rule 1302]

9. 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. [Rule 1303 – NSR Requirements]

10. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

11. 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. [Rule 204]

21. LIME INJECTION PROCESS - MDAQMD PERMIT # B012253; consisting of: 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. [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. [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. [Rule 204; Rule 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. This equipment shall not be operated until the road paving project at the Quarry Plant is complete as the emissions from this equipment has been offset by simultaneous emission reductions (SERS) from the road paving project. 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; SER's are calculated to be 0.64 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

22. AIR POLLUTION CONTROL EQUIPMENT (DBH4) - MDAQMD PERMIT # C001296; consisting of:

Serving Raw Mill System DRM2 (B001084). DBH4 - Dust Collector System, DBC-7 to DBC-8 Transfer, DCE Vokes envelope filter model DCM-V20/10, 2,000 CFM, 323 sq.ft., A/C ratio 6.19:1. 5 hp.

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

23. BAGHOUSE (QBH1) - MDAQMD PERMIT # C003249; consisting of:

BAGHOUSE- WHICH SERVES THE RAW MILL ADDITIVE SYSTEM: Fuller model 3FM Unifilter, Mechanical Shaker type baghouse with 16 polyester bags, each measuring 4.8' x 3'6". Cloth area is 402 ft2, 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 have a maintenance plan for this baghouse, which will include at a minimum, a log that will include visual emission readings on a regular basis, recording of differential pressures across the baghouse and inspection/repairs frequency. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The maintenance log for this baghouse shall be maintained on-site for five years and be made available to the District upon request. [District Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This baghouse shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

24. LIMESTONE RECLAIM SYSTEM - MDAQMD PERMIT # B001289; consisting of:

For storage. Controls: C001290 (CBH1) 25 hp; C001291 (CBH2) 40 hp.

200.0 Bridge-type Reclaimer - CBR
50.0 Conveyor Belt - CBC12
75.0 Conveyor Belt CBC 13
Surge Bin
325.0

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204, 401, 402, and 403, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The owner/operator (o/o) shall operate this equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

25. AIR POLLUTION CONTROL EQUIPMENT (CBH1) - MDAQMD PERMIT # C001290; consisting of: Serving raw material reclaim conveyor to elevator conveyor (B001289).CBH1 - Dust Collector, Flex-Kleen model 120 WRTC 48III, 734 sq.ft. cloth area, 4,000 CFM. A/C ratio 5.45. 25 hp Buffalo Forge exhaust fan, size 45. 25 hp.

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

26. AIR POLLUTION CONTROL EQUIPMENT (CBH2) - MDAQMD PERMIT # C001291; consisting of: Serving raw material conveyor DBC 13 to raw mill RM feeder bin (B001289). CBH2 - Dust Collector, Flex-Kleen model 120 WATC 96III, 1,458 sq.ft. cloth area, 84,000 CFM. A/C ratio 5.45. 40 hp Buffalo Forge exhaust fan, size 45; 40 hp.

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

27. SILO - STORAGE - MDAQMD PERMIT # T001998; consisting of:
Blending and Homogenizing for Raw Mills. Controls: C001294 (EBH3 - B000083); C000095 (EBH1 - B000083); C001295 (EBH4 - B001084); C001668 (EBH2 - B000083).

748000.0 2 Silos, Homogenizing, 100 MCF
1458000.0 1 Silo, Blending Kiln, 195 MCF
2206000.0

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP # 3A - CLINKER BURNING & COOLING

28. KILN (Q2) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B001083; consisting of: 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.

Capacity	Equipment Description
0.17	Blending System (67 hp)
0.1	Elevator (40 hp) - EF1
0.03	Calibration System (15 hp) - EFB
0.35	Dust Return System (140 hp)
1.02	Air Lift (400 hp) – EALF
240	Preheater-Precalciner - GPH2 (240 MMBTU/hr)
8.92	Preheater 7A (3500 hp) - GDF2
221.53	Kiln Q2 (600 hp) - GK2 (and 220 MMBTU/hr)
3.97	Clinker Cooler (1560 hp) - GCC2
0.03	Belt Conveyor (15 hp) - FBC3
0.19	Fifteen 5 hp Screw Conveyors - GGF2SC
0.01	Two 3 hp Feeders - FCM1, 2WF
1.53	Coal Mills 2 and 3 (300 hp each) - FCM 2 & 3
1.27	Coal Mill 1 with cage and vane high efficiency classifier (500hp) - 33- CMI
0.28	Primary Air Fan (110 hp) - GK2BOF
0.02	Drag Conveyor (10 hp) - GCC2DC2
0.18	Roller Crusher (four 17.7 hp)
0.06	Bucket Conveyor (25 hp) - GPC1
1.33	Seven 75 hp Cooling Fans - GGCF1 through GGCF7
0.02	Discharge Gate Drive (10 hp) - GGCDG1B
0.03	Pan Conveyor (15 hp) - HPC1
0	Water Spray Cooling System (In the downcomer duct of Kiln Q2)

0.07	Distribution Drag Conveyor (30 hp) - GGCDC
0.07	Drag Conveyor (30 hp) - GCC2DC1

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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)).
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. 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 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]

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. NOx - 42,207 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
   b. 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) on and after October 1, 2009
   c. 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)
   d. 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)
e. 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)
f. 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)
g. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

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, NOx, SOx and O2 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 SO2 and NOx CEMS - Performance Specification 2 of 40 CFR 60, appendix
b. For O2 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: Clinker, t/h = kiln feed scale reading x 0.89 x F 1/1.575 ; 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 NOx, SOx, 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 sheld 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 15 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

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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).

~~a. The o/o shall be limited to using only the following materials which are generated by CEMEX in California, as substitutes for raw materials in this Q2 system: Ultrasorb 248, Tribol's Molub-Alloy, used bags from dust collectors, shop rags any or all of which may have variable quantities of Unocal products such as but not limited to Drillube 320, Turbine Oils (100 and 450), Unax AW (46 and 68), HiTemp EP Grease 2, Multiplex EP2, Unoba Grease (2 and 0), MP Gear Lube LS 85W-140, Extra Duty NL Gear Lube (2EP, 4EP, 5EP, 6EP, and 7 EP);~~

~~b. Tire Derived Fuel (TDF) as whole or chipped tires or a combination thereof; TDF may be either whole or chipped tires or a combination of both, including tubes, plugs, seals and tire trimmings; 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. Wood chips, Painted Wood Products/Chips, trash- and dirt-free, 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 tertiary air combustor (TAC) in the tertiary air duct (TAD));~~

~~d. LUST remediation sand from CEMEX Victorville and Apple Valley facilities, as kiln feed;~~

~~e. Used oil filters from CEMEX California operations via a TDF chute, up to 5.5 lb/ton of kiln feed; and~~

~~f. Materials from CEMEX California operations via a TDF chute, specifically Ultrasorb 248, Tirbol Molub-Alloy, used dust collector bags, and used shop rags, up to 400 lbs/day including containers.~~

~~g. Biosolids with fuel feed rate not to exceed 10.5 tph; introduced into the kiln~~

~~pneumatically with fully enclosed ducts or tubing.~~
~~h. Pistachios and/or Almond shells with fuel feed rate not to exceed 10.5 tph; introduced into kiln Q2 pneumatically with fully enclosed ducts or tubing.~~
~~i. RDF fuel not to exceed 15 tph and shall be introduced into kiln Q2 pneumatically with fully enclosed ducts or tubing into the calciner or the front end of the kiln.~~
(o)~~j.~~ 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, ~~Refuse Derived Fuel (RDF) and fuel supplements~~ 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. The 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 CH4 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/m3, 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 -11 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.

(new) 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 Rule 1302; District Rule 1320; 40 CFR 63 Subpart LLL]

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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, 40 CFR 52.220(c)(39)(ii)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B)]

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. SO2 - 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]

29. <u>BAGHOUSE (FBH1) - MDAQMD PERMIT # C000094; consisting of:</u>
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 ft2, 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 B001082.

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall be operated concurrently with coal mill No. 1 (B001083). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. 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);
c. Quarterly bag and bag suspension system inspection date and results;
d. Date of bag replacements; and,
e. Date and nature of any system repairs.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 60.250]

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 60.252(c)].

6. This baghouse shall discharge no more than 3.66 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

30. AIR POLLUTION CONTROL EQUIPMENT (GBH2) - MDAQMD PERMIT # C001090; consisting of: 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 operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [District Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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.
[40 CFR 63 Subpart LLL and District Rule 204]

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.
[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]

31. AIR POLLUTION CONTROL EQUIPMENT (GGF2) - MDAQMD PERMIT # C001091; consisting of:

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. 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]

2. 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].

3. This baghouse shall not discharge PM10 in excess of 0.01 grains/dscf at the operating

conditions given in the above description. [District Rule 1302]

4. 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. 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 in lb/ton of clinker (Not To Exceed 0.07)
[District Rule 1302]

5. 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]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years.
[District Rule 204]

7. 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]

8. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.
[District Rule 1302]

9. 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 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]

10. 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]

11. 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]

12. 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.
[40 CFR 63 Subpart LLL and District Rule 204]

13. 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.
[District Rule 204]

14. 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]

32. AIR POLLUTION CONTROL EQUIPMENT (EBH5) - MDAQMD PERMIT # C001299; consisting of:

Serving Kiln 2Q raw material feed (B001083). EBH5 - Dust Collector, pulse jet type Flexkleen with 64 5.84: dia x 10' felted polyester bags (979 sq.ft.), 5,500 ACFM, 30 hp exhauster (A/C ratio 5:6) and 3/4 hp rotary air lock.

1. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

33. K2 G-COOLER DUST COLLECTOR (GGC BH) - MDAQMD PERMIT # C005190; consisting of: 3100 sq ft of Nomex bags with an exhaust of 18,600 acfm at 350 deg Fahrenheit

100.0 Dust Collector Fan GGCC1
0.0 Tipping Valves GGCBHTU1 - A and -B
2.0 Screw Conveyor GGSC1
1.0 Screw Conveyor GGSC2
103.0

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, which embraces at least weekly screenings of visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [District Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with Kiln No. 2 G-Cooler under valid District permit number B001083. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

34. COAL/COKE UNLOADING & TRANSFER SYSTEM - MDAQMD PERMIT # B001085; consisting of: Bins 1 and 2

75.0 Belt Conveyor (FBC2)
75.0

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

35. COAL UNLOADING SYSTEM - MDAQMD PERMIT # B001264; consisting of: 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. 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. [Rules 204, 401, 402, and 403, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

36. CLINKER TRANSFER SYSTEM TO OUTSIDE STORAGE - MDAQMD PERMIT # B001672; consisting of: Control: C004871 (HBH23) Conveyor - HBC1 Stacker - HBC2

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permit C004871. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

37. BAGHOUSE (HBH29) - MDAQMD PERMIT # C004870; consisting of: 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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the Clinker Storage Hall HH1 (B007709). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 63.1348].

6. This baghouse shall discharge no more than 0.64 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct an initial compliance test for PM10 and opacity (USEPA Method 5 or equivalent and 9). Testing shall be performed in 2005 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

38. CLINKER STORAGE SYSTEM - MDAQMD PERMIT # B007709; consisting of:

120,000 short ton clinker storage hall HH1 and:
Belt Conveyor (HBC12)
Weigh Feeders (HBC12WF1 and 2)
Vibratory Feeders (HBC12VF5-8)
Vibratory Feeders (HBC12VF10-12)
Distribution Belt (HBC15T)
Reclaimer Belt (HBC17)
8 Reclaimer Vibratory Feeders (HBC17VF1 through 8)
Screw Conveyors, Baghouse (HBH26SC1 and 2)
Screw Conveyors, Baghouse (HBH27SC1 and 2)
Pan Conveyor (HPC5)
225.0 Total horsepower estimate
225.0

1. The owner/operator (o/o) shall operate and maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.
[Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 63.1348]

7. THE FOLLOWING CONDITIONS APPLY TO OUTSIDE CLINKER STORAGE:

8. CEMEX shall submit an initial notification to the MDAQMD 10 days prior to the stockpile creation, and contain the following information:

a) Start and estimated End Date's of stockpile operations, not to exceed 6 months time duration.
b) Clinker handling and stockpile creation emissions calculations.
c) Identification of equipment to be shutdown for offsets.
d) Emission offset calculations.
e) Date, time, and estimated duration of offset equipment shutdown (Must precede stockpile commencement operations).
f) Outdoor stockpiles will be covered or chemically treated for dust suppression when not being created or recovered.
g) During stockpile creation, watering shall be employed to minimize emissions.
h) There shall not be any outside visible emissions associated with stockpile operations.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

9. PM10 emissions generated from the creation of the stockpile shall be calculated using the following equations:

PM10 (handling) = size of stockpile (tons) X *0.014 (lbs/ton) X number of handling drops

PM10 (stockpile) = size of exposed area (acres) X *4.05 (tons/acre)

*Emission Factors from MDAQMD Emissions Inventory Guidance Document Sections E & G. [Rules 204, 403 and 404, 40 CFR 52.220(c)(39)(ii)(B)]

10. Upon completion of stockpile operations, CEMEX will submit a notification containing the following information:

a) Actual Date of stockpile completion
b) Actual Date and time of offset equipment startup
c) Actual time duration, in hours that the offset equipment was shutdown
d) Net stockpile emissions calculations, based on the above referenced calculations and most recent source test data for the equipment used for offsets, or District approved emission factors, if source test data does not apply.

Note: Emissions calculated from Stockpile Operations shall result in either a zero or net emissions decrease. [Rules 204, 403 and 404, 40 CFR 52.220(c)(39)(ii)(B)]

39. BAGHOUSE (HBH23) - MDAQMD PERMIT # C004871; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the reclaimer discharge transfer point (HBC17) covered in District permit B000085. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.

[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 63.1348]

6. This baghouse shall discharge no more than 0.64 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct an initial compliance test for PM10 and opacity (USEPA Method 5 or equivalent and 9). Testing shall be performed in 2005 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1349]

40. CLINKER TRANSFER SYSTEM - STORAGE SILO NO. 1 - MDAQMD PERMIT # B001673; consisting of: Control: C001301 HBH3) 20 hp.

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001301. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

41. AIR POLLUTION CONTROL EQUIPMENT (HBH 3) - MDAQMD PERMIT # C001301; consisting of: 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 ft2, 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. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.

[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

42. CLINKER TRANSFER SYSTEM - STORAGE SILO NO. 2 - MDAQMD PERMIT # B001674; consisting of: Control: C001302 (HBH4) 25 hp.

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001302. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

43. AIR POLLUTION CONTROL EQUIPMENT (HBH 4) - MDAQMD PERMIT # C001302; consisting of: 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 ft2, 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. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

44. CLINKER TRANSFER SYSTEM (STORAGE DOME/HALL) -

MDAQMD PERMIT # B001675; consisting of:

Pan Conveyor- HPC1
Pan Conveyor- HPC2
Pan Conveyor- HPC3
150.0 Estimated horsepower
150.0

1. The owner/operator (o/o) shall operate and maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This equipment shall not be operated without being vented to the baghouses with District permits C001297 (HBH1A), C001303 (HBH1B) and C008824 (HBH1C). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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 [Rule 204, 40 CFR 63.1348]

6. The o/o shall conduct a compliance test for opacity (USEPA Method 9). Testing shall be performed in 2005 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1349]

45. BAGHOUSE (HBH1A) - MDAQMD PERMIT # C001297; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the pan conveyor HPC1 (B001675). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 63.1348]

6. This baghouse shall discharge no more than 0.43 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [District Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

46. AIR POLLUTION CONTROL EQUIPMENT (HBH 2) - MDAQMD PERMIT # C001298; consisting of:

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 ft2, 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. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

47. BAGHOUSE (HBH1B) - MDAQMD PERMIT # C001303; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the pan conveyor HPC2 (B001675). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 63.1348]

6. This baghouse shall discharge no more than 0.43 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct an initial compliance test for PM10 and opacity (USEPA Method 5 or equivalent and 9). Testing shall be performed in 2005 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1349]

48. BAGHOUSE (HBH26) - MDAQMD PERMIT # C008821; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the Clinker Storage Hall (B007709). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); and,

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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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 [Rule 204, 40 CFR 63.1348]

6. This baghouse shall discharge no more than 3.21 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct a periodic contingent compliance test for PM10 (USEPA Method 5 or equivalent and 9). Testing shall be performed during any calendar year the baghouse had a recorded stack opacity violation (starting in 2005) and the test results shall be submitted to the District not more than six (6) weeks after the conclusion of the applicable year. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1349]

49. BAGHOUSE (HBH27) - MDAQMD PERMIT # C008822; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the Clinker Storage Hall (B007709). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 63.1348]

6. This baghouse shall discharge no more than 3.21 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct a periodic contingent compliance test for PM10 (USEPA Method 5 or equivalent and 9). Testing shall be performed during any calendar year the baghouse had a recorded stack opacity violation (starting in 2005) and the test results shall be submitted to the District not more than six (6) weeks after the conclusion of the applicable year. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1349]

50. BAGHOUSE (HBH28) - MDAQMD PERMIT # C008823; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the Clinker Storage Hall (B007709). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 63.1348]

6. This baghouse shall discharge no more than 1.29 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct a periodic contingent compliance test for PM10 (USEPA Method 5 or equivalent and 9). Testing shall be performed during any calendar year the baghouse had a recorded stack opacity violation (starting in 2005) and the test results shall be submitted to the District not more than six (6) weeks after the conclusion of the applicable year. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1349]

51. BAGHOUSE (HBH1C) - MDAQMD PERMIT # C008824; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the pan conveyor HPC3 (B001675). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 63.1343]

6. This baghouse shall discharge no more than 0.43 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct an initial compliance test for PM10 and opacity (USEPA Method 5 or equivalent and 9). Testing shall be performed in 2005 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1349]

52. SILO - CLINKER STORAGE (1104) - MDAQMD PERMIT # T001997; consisting of:

1055000.0 Clinker Silo, North - 141 MCF
1055000.0 Clinker Silo, South - 141 MCF
Clinker Dome (pile)

2110000.0

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

53. BULK TRUCK & SUPER SACK LOADOUT FACILITY - MDAQMD PERMIT # B002709; consisting of: For dust from Kiln 1Q. Control: C002710 (GWDBH)
Airslide, 16" x 18'
5.0 Blower IAP, model 11-15, 460 CFM - GWDACB
1.0 Telescoping Loading Spout, 12" ID, 3'10" retracted length with 9' travel. Two Budget ___ Cat G356-1R 500 lb capacity, 1/2 hp Hoists.
6.0

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C002710. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

54. AIR POLLUTION CONTROL EQUIPMENT (GWDBH) - MDAQMD PERMIT # C002710; consisting of: Serving 1Q Bulk Kiln Dust Loadout System (B002709).
GWDBH - Dust Collector, Fabric, WW SLY Model PS-5, 440 ft2 with Shaker, Flow Rate: 1,460 CFM @ 110 degrees F; 0.33 hp.
GWDBHF - Fan, integral with GWDBH; 5 hp.
Total hp = 5.33

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

55. BAGHOUSE (FBH2) - MDAQMD PERMIT # C010581; consisting of: 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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall be operated concurrently with coal mill No. 3 (B001083). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. 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);
   c. Quarterly bag and bag suspension system inspection date and results;
   d. Date of bag replacements; and,
   e. Date and nature of any system repairs.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants. [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. [Rule 204, 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 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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer). [District Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

56. COAL BINS - MDAQMD PERMIT # T010582; consisting of:

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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); [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This equipment shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants. [Rule 204, 40 CFR 60.250]

5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity (40 CFR 60.252(c)). [Rule 204, 40 CFR 60.252(c)]

57. BAGHOUSE (FPFB1V) - MDAQMD PERMIT # C010577; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall be operated concurrently with pulverized coal bin FPFB1 (T010582). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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) 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.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants. [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. [Rule 204, 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 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

58. BAGHOUSE (FPFB2V) - MDAQMD PERMIT # C010578; consisting of:

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 ft2, 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 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall be operated concurrently with pulverized coal bin FPFB2 (T010582). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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) 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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants. [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. [Rule 204, 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 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

59. BAGHOUSE (FPFB3V) - MDAQMD PERMIT # C010579; consisting of:

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 ft2, 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 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall be operated concurrently with pulverized coal bin FPFB3 (T010582). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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) 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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants. [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. [Rule 204, 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 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP # 3B - CLINKER BURNING & COOLING

60. <u>KILN (Q3) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B005362; consisting of:</u> 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.

Capacity	Equipment Description
0	Kiln Feed System
0	Belt Conveyors
0	Elevator
0	Calibration System
0	Dust Return System

0	Pre-Calciner
0	Pre-Heater
625	Kiln (Q3), which is rated at 625 millions Btu/h input
0	Induced Draft Fan
0	Clinker Cooler (Vent-less)
0	Clinker Cooler Cyclone Separator
0	Clinker Cooler Heat Exchanger
0	Pan Conveyor
0	Screw Conveyors
0	Feeders
0	Coal Mill (Raymond Mill FCM4 Bin)
0	Primary Air Fan
0	Drag Conveyors
0	Clinker Breakers
0	Clinker Cooler Fans
22.95	Discharge Gate Drives

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 herein. [District Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 proceeding 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 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 - 42,207 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
b. 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) on and after October 1, 2009
c. 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)
d. 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)
e. 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)
f. 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)
g. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)
[District Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

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, NOx, SOx and O2 for kiln Q3 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). The stack gas PM shall be monitored using a Continuous Parametric Monitoring System (CPMS). 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 SO2 and NOx CEMS - Performance Specification 2 of 40 CFR 60, appendix B;
b. For O2 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: Clinker, t/h = kiln feed scale reading x 0.89 x F 1/1.575 ; 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 NOx, SOx, 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, ~~Refuse Derived Fuel (RDF) and fuel supplements~~ 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 KKK 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 9.5 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 15 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).

~~a. UNOCAL Gearite (internally generated), up to 2.5 gallons per minute;~~
~~b. Tire Derived Fuel (TDF) as whole or chipped tires or a combination thereof; TDF may be either whole or chipped tires or a combination of both, including tubes, plugs, seals and tire trimmings; 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. Wood chips, Painted Wood Products/Chips, trash- and dirt-free, 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 tertiary air combustor (TAC) in the tertiary air duct (TAD));~~
~~d. LUST remediation sand from CEMEX Victorville and Apple Valley facilities, as kiln feed;~~
~~e. Used oil filters from CEMEX California operations via a TDF chute, up to 5.5 lb/ton of kiln feed; and~~
~~f. Materials from CEMEX California operations via a TDF chute, specifically Ultrasorb 248, Tirbol Molub-Alloy, used dust collector bags, and used shop rags, up to 400 lbs/day including containers.~~
~~g. Biosolids with fuel feed rate not to exceed 9.5 tph; introduced into the kiln pneumatically with fully enclosed ducts or tubing.~~
~~h. Pistachios and/or Almond shells with fuel feed rate not to exceed 9.5 tph; introduced into kiln K3 pneumatically with fully enclosed ducts or tubing.~~
~~i. RDF fuel rate not to exceed 15 tph and shall be introduced into kiln K3 pneumatically with fully enclosed ducts or tubing into the calciner or the front end of the kiln.~~

16. The 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 CH4 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/m3, 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 -11 gr per dscf) (TEQ); results shall be provided in ng per dscm (TEQ).
[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

(new) 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 Rule 1302; District Rule 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 NOx 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;
f. The description of any non-compliance with the above-referenced consent decree, the cause, and remedial steps taken or proposed.

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.

61. MAIN BAGHOUSE (GBH 3- KILN Q3 AND CLINKER COOLER SYSTEM 3Q) - MDAQMD PERMIT # C007368; consisting of: A baghouse to withstand 485 degrees F and handle a flow rate of 520,000 ACFM. When final contracts have been let, more specific details may be added, but the final installation used will define the final permit.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Kiln Q-3 and its associated Clinker Cooler; under valid District permit number B005362. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

8. Opacity measurements shall not exceed 10% aggregated for more than 30 minutes in any 1-hour period. [Rules 204]

62. BAGHOUSE - HBH25, WHICH SERVES THE KILN Q-3 CLINKER PAN CONVEYOR - MDAQMD PERMIT # C007347; consisting of:
Baghouse with Nomex bags operating at 250 degrees F and 7500 ACFM

1. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

2. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall institute a program of maintenance, visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) in accordance with 40 CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. This baghouse shall operate concurrently with Clinker Pan Conveyor of the Kiln (Q-3)/Clinker Cooler under valid District permit number B005362. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

9. This baghouse shall discharge no more than 0.48 lb/hour of PM-10 at a maximum concentration of 0.01 grain/dscf PM-10 at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

63. BAGHOUSE – (FBH4) - MDAQMD PERMIT # C007359; consisting of:
Bags to collect particulates from existing Raymond Mill, FCM 4. Bags will withstand 125

degrees F at a flow rate 15,000 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce **minimum** emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with Raymond Mill FCM4 Bin; under valid District permit number B005362. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 0.5 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

64. KILN Q3 PRE-HEATER FEED SYSTEM - MDAQMD PERMIT # B007340; consisting of:

This system is vented to 3 baghouses. CEMEX refers to the baghouses as EBH6 (C007348), EBH7 (C007350), EBH8 (C007351) and EBH9 (C008253). Baghouse motors for this system will be provided as contracts are let, and subject to revision.

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, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

65. BAGHOUSE - EBH6, WHICH SERVES THE KILN Q-3 PRE-HEATER SYSTEM - MDAQMD PERMIT # C007348; consisting of:

Bags to collect particulates from pre-heater kiln feed of Q-3. Baghouse operates at 150 degrees F at a flow rate 4500 ACFM. CEMEX will provide additional information as contracts are let; revisions may be necessary.

1. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

2. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall institute a program of maintenance, visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) in accordance with 40 CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1350]

5. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. This baghouse shall operate concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

9. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

66. ACTIVATED CARBON INJECTION SYSTEM- KILN Q3- MDAQMD PERMIT # C012651; consisting of:

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, 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.

1. 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. [Rule 204]

2. System dust collectors 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]

3. 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. [Rule 1302]

4. 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. Weekly reading of dust collectors' pressure drop, date and value;
   b. Quarterly silo bin sock and dust collector inspection date and results;
   c. Date of bin sock and or cartridge filter replacements;
   d. Date and nature of any system repairs; and,
   e. Average PM-10 emissions in lb/ton of clinker per Condition 12 (Not To Exceed 0.10 until September 9, 2015 when the PM shall Not Exceed 0.07); NOTE AVERAGE NEEDS TO BE DEFINED. [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be

retained for a minimum period of five (5) years. [Rule 204]

7. The systems air pollution control device's 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. [Rule 1302]

8. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bin socks and filter cartridges that assures compliance these conditions. [Rule 1302]

9. 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. [Rule 1303 - NSR Requirements]

10. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

11. 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. [Rule 204]

67. <u>LIS2 LIME SILO- MDAQMD PERMIT # C007350; consisting of:</u> 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. [Rule 1303]

2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications. [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. [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. [Rule 204]

5. This equipment shall not be operated until the road paving project at the Quarry Plant is complete as the emissions from this equipment has been offset by simultaneous emission reductions (SERS) from the road paving project. 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; SER's are calculated to be 0.64 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

67. BAGHOUSE- EBH7, CONTROL DEVICE FOR KILN Q-3 PRE-HEATER FEED SYSTEM - MDAQMD PERMIT # C007350; consisting of:

Bags to collect particulates from pre-heater kiln feed of Q-3. Baghouse operates at 150 degrees F, and flow rate of 4400 ACFM. CEMEX will provide additional information as contracts are let; further revisions may be necessary.

1. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

2. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall institute a program of maintenance, visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1350]

5. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. This baghouse shall operate concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

9. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

68. <u>BAGHOUSE- EBH8, WHICH SERVES KILN Q-3 PRE-HEATER FEED SYSTEM - MDAQMD PERMIT # C007351; consisting of:</u> Bags to collect particulates from pre-heater kiln feed of Q-3. Baghouse operates at 150 degrees F and flow rate of 2100 ACFM. CEMEX will provide additional information as contracts are let; further revisions may be necessary.

1. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

2. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall institute a program of maintenance, visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1350]

5. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. This baghouse shall operate concurrently with kiln Q-3 pre-heater feed system; under valid District permit number B007340. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

9. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

69. BAGHOUSE (EBH9) - MDAQMD PERMIT # C008253; consisting of:

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 ft2 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 install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, which embraces at least monthly visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) and regular (at least monthly, but to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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 Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall be used to control emissions from Kiln Q-3 pre-heater feed system.

[District Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required, however, the District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

70. COAL STACKER & RECLAIM SYSTEM - MDAQMD PERMIT # B005344; consisting of:

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/h
25.0 Railcar Shaker
30.0 Belt Feeders, each at 15 hp
15.0 C-2A Conveyor
15.0 C-3A Conveyor
100.0 Traveling Stacker/Reclaimer, rated at 600 ton/h
15.0 C-4 Conveyor
Emergency Reclaim Hopper
200.0

1. The owner/operator, o/o, shall install, operate and maintain this equipment in strict accord with the recommendations of the manufacturer/supplier. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. All outside conveyors, excluding the stacker/reclaimer yard conveyor shall be covered. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204, 401, 402, and 403, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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
   [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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). [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

68. PULVERIZED COAL BIN (FPFB 4) - MDAQMD PERMIT # T007357;

consisting of: 12,300 gallon (50 ton capacity) bin served by baghouse FPFB4DC (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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This equipment shall not be operated unless it is vented to the properly functioning baghouse FPFB4DC under valid District permit C007358, and through attached bin vent FPFB4V when accepting pneumatic fill. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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) 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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. This equipment shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart Y - Standards of Performance for Coal Preparation Plants. [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. [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 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

69. BAGHOUSE - (FPFB4DC), WHICH SERVES THE NEW PULVERIZED COAL BIN- MDAQMD PERMIT # C007358; consisting of:

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 ft2, 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 install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of five years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR

52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with New Pulverized Coal Bin; under valid District permit number T007357. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 0.5 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

70. ROLL PRESS NO. 1, RAW MATERIAL GRINDING - MDAQMD PERMIT # B007336; consisting of:

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	Roll Rress - KHD Humboldt Model #322/2 Serial # tbd - 2 motors @ 1,000 bhp each (2000 * 2550 = 5,100,000 btu Air Separator - DRP1VS Gate Slide - DRP1VSG Feed Bin - DRP1FB - 150 tons
71.086	Air Heater - Natural Gas - Aecometric Model # AC808 Serial # tbd - Rated at 75 GJ/Hr
0.102	Heater Blower Fan # 01 - DRP1AHF1 - 40 bhp Fan Damper - DRP1AHF1D
0.0785	Heater Blower Fan # 02 - DRP1AHF3 - 30 bhp Fan Damper - DRP1AHF2D
0.765	Air Separator Roll Press #1 - DAS1 - 300 bhp
0.765	Bucket Elevator - DE04 - 2 motors at 150 bhp each
0.102	Air Slide - DAC14 - 40 bhp
0.0638	Air Slide - DAC15 - 25 bhp
0.268	Air Slide - DAC16 - 2 motors at 15 bhp each and 3 motors at 25 bhp each
0.178	Air Slide - DAC17 - 3 motors at 15 bhp and 1 motor at 25 bhp
0.153	Air slides - DAC30 - 2 motors at 25 bhp and 1 motor at 10 bhp
0.064	Conveyor - DBC12 - 25 bhp
0.026	Conveyor - DBC13 - 10 bhp
0.153	Conveyor - DBC14 - 60 bhp
0.153	Conveyor - DBC15 - 60 bhp
79.1	Total MMBTU

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. Equipment shall be operated/maintained according to the recommendations of the manufacturer/supplier and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This equipment shall not discharge into the atmosphere an exhaust stream with CO emissions not to exceed 400 ppmv. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. 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. [Rule 204, 40 CFR 63.1343)]

7. 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. [Rule 204, 40 CFR 63.1343)]

8. 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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

9. 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 - 42,207 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
b. 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) on and after October 1, 2009
c. 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)
d. 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)
e. 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)
f. 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)
g. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production)
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

10. The stacks (vents) that release produces of combustion shall be tested triennially beginning in 2011 for NOx, VOC and CO. (There shall be at least 30 months and no more than 40 months between source tests.) [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

11. 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 [Rules 104 and 204, 40 CFR 52.220(c)(39)(ii)(B)]

12. 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. [Rule 204]

71. BAGHOUSE, CBH3, AT DROP TUBE FROM CBC8 (B001666), RAW MATERIAL TRANSPORT SYSTEM - MDAQMD PERMIT # C007337; consisting of:

Flex-Kleen, Pulse Jet Type, Air: Cloth ratio of 5.6:1, operating at ambient temperature, 40 bhp motor, 64 Polyester bags, cloth area 979 ft2, stack height 6 ft, 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

1. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required; however, the District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall institute a program of maintenance, which embraces at least monthly screenings of visible emissions, monthly visual inspections of all associated equipment

(inclusive of the bags and their suspensions system) and regular (at least monthly, but to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The o/o shall log all the items in 3 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall operate concurrently with the Raw Material Grinding system; under valid District permit number B001666, at the transfer point. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8.. This baghouse shall discharge no more than 0.47lb/hour of PM10 at a maximum concentration of 0.01 gr/dSCF of PM-10 at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

9. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rules 204 and 401, 40 CFR 63.1343]

72. <u>BAGHOUSE- DBH 9, WHICH SERVES ROLL PRESS 1 (MATERIAL GRINDING) - MDAQMD PERMIT # C007360; consisting of:</u> Bags to collect particulates from Roll Press No. 1 system. Bags will withstand 125 degrees F at a flow rate 96,000 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and

non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Roll Press No.1 System; under valid District permit number B007336. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 13.5 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

73. <u>BAGHOUSE DBH 7, WHICH SERVES ROLL PRESS No. 1 - MDAQMD PERMIT # C007361; consisting of:</u> Bags to collect particulates from Roll Press No. 1 system. Bags will withstand 150 degrees F at a flow rate 9,400 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Roll Press No.1 System; under valid District permit number B007336. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 1.25 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

74. <u>BAGHOUSE-DBH 8, WHICH SERVES ROLL PRESS No.1 - MDAQMD PERMIT # C007362; consisting of:</u> Bags to collect particulates from Roll Press No. 1 system. Bags will withstand 125 degrees F at a flow rate 9,400 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

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

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rule 204, Rule1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Roll Press No.1 System; under valid District permit number B007336. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 1.25 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40

CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

75. <u>BAGHOUSE- DBH6 - MDAQMD PERMIT # C007363; consisting of:</u>
Bags to collect particulates from Roll Press No. 1 system. Bags will withstand 150 degrees F at a flow rate 4800 ACFM. Southdown will provide additional information as contracts are let, but further revisions may be necessary.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rule 204, Rule 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the roll press No. 1 System, under valid District permit number B007336. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 0.65 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

76. <u>ROLL PRESS No. 2, RAW MATERIAL GRINDING - MDAQMD PERMIT # B007364; consisting of:</u> 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 Roll Rress - KHD Humboldt Model #322/2 Serial # tbd - 2 motors @ 1,000 bhp each (2000 * 2550 = 5,100,000 btu)
Air Separator - DRP2VS

	Gate Slide - DRP2VSG
	Feed Bin - DRP1FB - 150 tons
71.086	Air Heater - Natural Gas - Aecometric Model # AC808 Serial # tbd - Rated at 75 GJ/Hr
0.102	Heater Blower Fan # 01 - DRP2AHF1 - 40 bhp
	Fan Damper - DRP2AHF1D
0.076	Heater Blower Fan # 02 - DRP2AHF2 - 30 bhp
	Fan Damper - DRP2AHF2D
0.765	Air Separator Roll Press #1 - DAS1 - 300 bhp
0.102	Air Slide - DAC21 - 25 & 15 bhp
0.064	Air Slide - DAC22 - 25 bhp
0.166	Air Slide - DAC23 - 25, 25 & 15 bhp
0.064	Air Slide - DAC24 - 25 bhp
0.135	Conveyor DBC16 - 25, 25 & 3 bhp
0..026	Conveyor DBC17 - 10 bhp
0.153	Conveyor DBC18 - 25, 25, 5 & 5 bhp
0.051	Conveyor DBC19 - 15 & 5 bhp
0.191	Bucket Elevator DE06 - 75 bhp
0.382	Bucket Elevator DE07 - 150 bhp
78.5	Total MMBTU

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. Equipment shall be operated/maintained according to the recommendations of the manufacturer/supplier and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. 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). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

5. This equipment shall not discharge into the atmosphere an exhaust stream with CO emissions not to exceed 400 ppmv. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

6. 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. [Rule 204, 40 CFR 63.1343]

7. 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. [Rules 204 and 401, 40 CFR 52.220(c)(39)(ii)(B)]

8. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

9. 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 - 42,207 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
b. 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) on and after October 1, 2009
c. 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)
d. 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)
e. 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)
f. 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)
g. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production) [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

10. The stacks (vents) that release produces of combustion shall be tested triennially beginning in 2011 for NOx, VOC and CO. (There shall be at least 30 months and no more than 40 months between source tests.) [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

11. 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 [Rules 204 and 401, 40 CFR 52.220(c)(39)(ii)(B)]

12. 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. [Rule 204]

77. <u>BAGHOUSE-DBH 12, WHICH SERVES ROLL PRESS No. 2 - MDAQMD PERMIT # C007365; consisting of:</u> A baghouse to withstand 150 degrees F and handle a flow rate of 114,000 ACFM. When final contracts have been let, more specific details may be added, but the final installation used will define the final permit.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rule 204, Rule 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Roll Press No.2 System; under valid District permit number B007364. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 16.5 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

78. <u>BAGHOUSE-DBH 10, WHICH SERVES ROLL PRESS No.2 - MDAQMD PERMIT # C007366; consisting of:</u> A baghouse to withstand 150 degrees F and handle a flow rate of 9,400 ACFM. When final contracts have been let,

more specific details may be added, but the final installation used will define the final permit.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Roll Press No.2 System; under valid District permit number B007364. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 1.35 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

79. <u>BAGHOUSE-DBH 11, WHICH SERVES ROLL PRESS No. 2 - MDAQMD PERMIT # C007367; consisting of:</u> A baghouse to withstand 150 degrees F and handle a flow rate of 9400 ACFM. When final contracts have been let, more specific details may be added, but the final installation used will define the final permit.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance which embraces at least weekly visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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 Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Roll Press No.2 System; under valid District permit number B007364. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 1.35 lb/hour at a maximum concentration of 0.02 gr/dSCF at the operating conditions described in the above description. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

80. RAW MEAL TRANSPORT SYSTEM - MDAQMD PERMIT # T007339; consisting of:

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 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

81. BAGHOUSE- DBH13, - MDAQMD PERMIT # C007353; consisting of:

Bags to collect particulates from Roll Press No. 1. Baghouse operates at 150 degrees F and flow rate of 4600 ACFM. CEMEX will provide additional information as contracts are let further revisions may be necessary.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40 CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1350]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Raw Material Transport system ,under valid District permit number T007339. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. This baghouse shall discharge no more than 0.34lb/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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rule 204, 40 CFR 63.1343]

9. Regular emissions testing for demonstration of compliance with District Rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

82. <u>BAGHOUSE-DBH14, CONTROLLING EMISSIONS FROM THE RAW MATERIAL TRANSPORT SYSTEM - MDAQMD PERMIT # C007355; consisting of:</u> Bags to collect particulates from Raw Material Transport system. Baghouse operates at 150 degrees F and 8,650 ACFM flow rate. CEMEX will provide additional information as contracts are let; revisions may be necessary.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1350]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Raw Meal Transport system; under valid District permit number T007339. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rule 204, 40 CFR 63.1343]

9. Regular emissions testing for demonstration of compliance with District Rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

83. BAGHOUSE - DBH 15 - MDAQMD PERMIT C007356; consisting of:

Bags to collect particulates from Raw Material Transport system. Baghouse operates at 150 degrees F at a flow rate of 5300 ACFM. CEMEX will provide additional information as contracts are let; further revisions may be necessary.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The o/o shall institute a program of maintenance, visible emission determinations, monthly visual inspections of all associated equipment (inclusive of the bags and their suspensions system) in accordance with 40 CFR Part 63.1350, and regular (to be determined with experience with this unit) measurements of the pressure differential across the bags. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1350]

3. The o/o shall log all the items in 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Raw Material Transport system; under valid District permit number T007339. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. Opacity measurements shall not exceed 10% aggregated for 3 minutes in any 1-hour period. [Rule 204, 40 CFR 63.1343]

9. Regular emissions testing for demonstration of compliance with District rules 404 and 405 are not required. The District may require additional emissions testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

84. SILO-RAW MEAL ES4 - MDAQMD PERMIT # T008472; consisting of:

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 equipment described above shall not be operated unless vented to air pollution control devices operating under valid District permits, C008473, C008474, and C009753. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. The owner/operator, o/o, shall give the District written notice of the following dates:
   a. Commencement of construction, defined as ground breaking for pad placement;
   b. Completion of construction;
   c. Start-up for shakedown purposes; and
   d. Commencement of commercial use.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

4. Within 180 days of commercial startup, as determined in condition 3d, the o/o shall conduct emissions testing for PM and PM-10 on the outlets of the baghouse described in District permits C008473, C008474, and C009753. The testing shall follow the District's Compliance Test Procedural Manual without exception relative to Pre-Test Protocol Meeting, Pre-Test Protocol submittal(s) and acceptance, Testing, Analyses and Final Report preparation and submittal. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

85. BAGHOUSE - EBH 10 - MDAQMD PERMIT # C008473; consisting of:

A IAC Model 120TB-BVT-499:S6, pulse type. This unit is powered by a 10 hp electric motor driven fan that produces a flow of approximately 4500 ACFM. There are 49 bags of 16 ounce/square yard of polyester felt and they have a total filter area of 802ft^2 and an A:C ratio of 5.61:1, with a maximum PM10 emission rate of 0.01 gr/dscf.

1. The owner/operator, (o/o), shall install, operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This baghouse shall operate concurrently with the Blending Silo under valid District permit T008472. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be

provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This baghouse does not require regular emissions testing beyond that described in the ATC T008472, but the District may require testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. Visual emissions shall be monitored pursuant to 40CFR63.1350. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1350]

86. <u>BAGHOUSE - EBH11 - MDAQMD PERMIT # C008474; consisting of:</u> IAC Model 120TB-BHT-64:S6, pulse type. This unit is powered by a 20 hp electric motor driven fan that produces a flow of approximately 4200 ACFM. There are 64 bags of 16 ounce/square yard of polyester felt and they have a total filter area of 1047ft^2 and an A:C of 4.0:, with a maximum PM10 emission rate of 0.01 gr/dscf.

1. The owner/operator, (o/o), shall install, operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This baghouse shall operate concurrently with the Blending Silo under valid District permit T008472. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of 5 years. This log shall be provided to District personnel on request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This baghouse does not require regular emissions testing beyond that described in the ATC T008472, but the District may require testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

6. Visual emissions testing shall be monitored pursuant to 40CFR63.1350. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR 63.1350]

87. <u>TANKS, AQUEOUS AMMONIA - MDAQMD PERMIT # T010576; consisting of:</u> 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. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This equipment shall only store 19% aqueous ammonia (ammonium hydroxide). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

3. This equipment shall be discharged through the selective non-catalytic reduction ammonia injection systems operating with Q2 (B001083) and Q3 (B005362). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

GROUP # 4 - CLINKER STORAGE & HANDLING (QUARRY)

88. CLINKER RECLAIM SYSTEM - OUTSIDE STORAGE - MDAQMD PERMIT # B001676; consisting of: Control: C001669 (HBH22) 20 hp.

10.0 Vibrating Feeders (7 @ 2.5 hp ea.) (only 4 run at a time)
75.0 Conveyor - HBC 12
30.0 Vibrating Feeders (6 @ 5hp ea.) (2 set of 3 @ 15 hp ea.)
115.0

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001669. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

89. AIR POLLUTION CONTROL EQUIPMENT (HBH 22) - MDAQMD PERMIT # C001669; consisting of: Serving Clinker Dome Clinker Reclaim System (B001676). HBH22 - Baghouse, CEMEX MK V, reverse pressurization, 150 6" x 166" bags. 3,255 sq.ft., 6,000 CFM. 20 hp.

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, Rule 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

90. CLINKER RECLAIM SYSTEM - STORAGE DOME - MDAQMD PERMIT # B001677; consisting of: Controls: C000092 (HBH6) 18 hp; C000093 (HBH17) 18 hp; C001660 (HBH20) 30 hp.

19.8 Vibrating Feeders - 6 (2 sets @ 9.9 hp ea.)
75.0 Conveyor - HBC8
75.0 Conveyor - HBC9
1.5 2 2/3 hp Rotary Locks
171.3

1. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

91. AIR POLLUTION CONTROL EQUIPMENT (HBH 6) - MDAQMD PERMIT # C000092; consisting of: Serving Clinker Loadout Conveyor (HBC8, under permit B001677). HBH6 - Dust Collector System, Pulse jet envelope filter type DCE-Vokes 2 DCM-V 20/10 with twenty 19 oz. polyester felt (terylene) bags 1 meter long. 215 sq.ft. filtering area with 3 hp 1,000 CFM fan. A/C ratio 4.65:1 total of six identical units controlling transfer points from vibratory feeders 65-VF-31/33 to Belt 65-BC-1 and discharging to 65-BC-1. 18 hp.

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

92. AIR POLLUTION CONTROL EQUIPMENT (HBH 17) - MDAQMD PERMIT # C000093; consisting of: Serving Clinker Loadout Conveyor (HBC9, under permit B001677). HBH17 - Dust Collector System, Pulse jet envelope filter type DCE-Vokes 2 DCM-V 20/10 with twenty 19 oz. polyester felt (terylene) bags 1 meter long. 215 sq.ft. filtering area with hp 1,000 CFM fan. A/C ratio 4.65:1 total of six identical units controlling transfer points from vibratory feeders 65-VF-34/36 to Belt 65-BC-2 and discharging to 65-BC-2. 18 hp.

1. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles.

[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, Rule 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

93. AIR POLLUTION CONTROL EQUIPMENT (HBH 20) - MDAQMD PERMIT # C001660; consisting of: 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 ft2, 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. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, Rule 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

94. CLINKER RECLAIM SYSTEM - STORAGE SILO NO. 1 - MDAQMD PERMIT # B001678; consisting of: Control: C001308 (HBH18) 30 hp.

30.0 Vibratory Feeders (4)
1.5 Air Locks - 2 @ 3/4 hp ea.
31.5

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001308. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

95. AIR POLLUTION CONTROL EQUIPMENT (HBH 18) - MDAQMD PERMIT # C001308; consisting of: 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 ft2, 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. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204, Rule 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

96. CLINKER RECLAIM SYSTEM - STORAGE SILO NO. 2 - MDAQMD PERMIT # B001679; consisting of: Control: C001300 (HBH19)

30.0 Vibratory Feeders - 4
1.5 Rotary Locks - 2 @ 3/4 hp ea.
31.5

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by District valid permit No. C001300. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

97. AIR POLLUTION CONTROL EQUIPMENT (HBH 19) - MDAQMD PERMIT # C001300; consisting of: 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 ft2, 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. Particulate emissions shall not exceed a discharge grain loading of .02 grains per actual cubic foot. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The owner/operator (o/o) shall operate this particulate control equipment in strict accordance with the manufacturer's specifications and/or sound engineering principles. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

98. CLINKER LOADOUT SYSTEM - RAIL - MDAQMD PERMIT # B000085; consisting of:

75.0 Conveyor (HBC8)
75.0 Conveyor (HBC9)
75.0 Conveyor (HBC10)
75.0 Conveyor (HBC11)
300.0

1. The owner/operator (o/o) shall operate and maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This equipment shall not be operated unless it is vented to functioning air pollution control equipment covered by valid District permits C001670 (HBH21). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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 [Rule 204, 40 CFR 63.1348]

6. The o/o shall conduct a compliance test for opacity (USEPA Method 9). Testing shall be performed in 2005 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

99. BAGHOUSE (HBH 21) - MDAQMD PERMIT # C001670; consisting of:

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 ft2, 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the rail load out (B000085). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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.
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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. [Rule 204, 40 CFR 63.1348]

6. This baghouse shall discharge no more than 3.43 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

7. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

8. The o/o shall conduct a periodic contingent compliance test for PM10 (USEPA Method 5 or equivalent and 9). Testing shall be performed during any calendar year the baghouse had a recorded stack opacity violation (starting in 2005) and the test results shall be submitted to the District not more than six (6) weeks after the conclusion of the applicable year. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

100. BAGHOUSE (HBH23) - MDAQMD PERMIT # C004871; consisting of:

An Industrial Accessories Company Model 106-TBI-320:S6 pulsejet cleaned baghouse equipped with 320 NOMEX bags totaling 5190 square feet of filter area and a 125 hp fan generating 40,000 acfm of 150 degree Fahrenheit flow through the bags (for an air to cloth ratio of 7:71:1). This baghouse serves the rail loadout system.

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with recommendations of the manufacturer and/or sound engineering practices which produce the minimum emissions of air contaminants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. This baghouse shall operate concurrently with the reclaimer conveyor discharge transfer point (HBC17) covered in District permit B000085. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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 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
   [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [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 [Rule 204, 40 CFR 63.1348]

6. This baghouse shall discharge no more than 0.64 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

101. GASOLINE DISPENSING FACILITY (NON RETAIL); District Permit Number N002209; Consisting of:

Tanks (2)

Tank No.	1	2
1. Material Stored	Diesel	87U
2. Volume Gallons	20,000	15,000
3. Above/Under Ground	A	A

B) Dispensing Equipment
1. Gasoline Dispensing Nozzle-Product Rating: 1
2. Diesel Dispensing Nozzles: 2
3. Phase II Vapor Recovery System: Balance

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 two (2) years and shall be available to the District upon request. [Rules 204 and 461, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the District. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The Vapor vent pipes are to be equipped with pressure relief valves. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. The owner or operator shall conduct and pass the following tests annually using the latest adopted version of 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. [Rule 204, Rule 461, 40 CFR 52.220©(39)(ii)(B)]

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. [Rule 204, Rule 461, 40 CFR 52.220(c)(39)(ii)(B)]

7. The o/o shall maintain and operate this equipment in compliance with CARB Executive Order G-70-132-B. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

102. DIESEL IC ENGINE, STATIONARY, EMERGENCY GENERATOR; District Permit Number E001910; Consisting of: 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. [40 CFR Part 63, Subpart ZZZZ; Rule 204]

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 comers first; and
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 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. [Rule 204]

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. NOx - 42,207 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
b. 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) on and after October 1, 2009
c. 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)
d. 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)
e. 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)
f. 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)

g. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production) [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

104. TANK – WASTE OIL; District Permit Number T004582; Consisting of:

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. Materials that may be stored in this tank are limited to internally generated waste oils. [Rules 204 and 461, 40 CFR 52.220(c)(39)(ii)(B)]

105. BIOSOLIDS FUEL TRANFER, STORAGE & INJECTION PROCESS; District Permit Number B010486; Consisting of:

Capacity	Equipment Description
3	Truck Unloading Hopper
6	Screw Extracter
100	Hydraulic Pumps (2), 50 hp each, 20 gpm@2000 psi each
0	Hydraulic Oil Tank, 50 gallons
7.5	Transfer Conveyor
5	Bin Vent for BioSolid equipment, consisting of Power Core Filter Pack, filter
50	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
0	EQUIPMENT ASSOCIATED WITH MULTI-FUEL SYSTEM
25	Hydraulic Power Unit Pump Motor - for Walking floor trailer
1	Hydraulic Power Unit Cooling Fan Motor 1
1	Hydraulic Power Unit Cooling Fan Motor 2
3	EcoDock 1 Live Bottom Screw 1 Motor
3	EcoDock 1 Live Bottom Screw 2 Motor
3	EcoDock 1 Live Bottom Screw 3 Motor
3	EcoDock 1 Live Bottom Screw 4 Motor
0.5	EcoDock 1 Roll Up Door Motor
3	EcoDock 2 Live Bottom Screw 1 Motor
3	EcoDock 2 Live Bottom Screw 2 Motor
3	EcoDock 2 Live Bottom Screw 3 Motor
3	EcoDock 2 Live Bottom Screw 4 Motor
0.5	EcoDock 2 Roll Up Door Motor
7.5	Move Master Drag Conv. Motor
1	DM0 Weigh Belt Motor
10	IDMS Rotary Valve
200	Blower for pneumatic system
442	Rating bhp

1. The owner/operator (0/0) 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Biosolid unloading operations shall not exhibit any visible emissions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. Biosolid material shall contain sufficient moisture to ensure compliance with District Rules 401 and 403 and no visible emissions requirements as stated above. [Rule 204, Rule 401, Rule 402, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. Biosolid material is conveyed through completely enclosed tubes and conveying equipment and shall not exhibit any visible emissions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

106. BAGHOUSE (EBH12) - MDAQMD PERMIT # C009753; consisting of:

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 ft2, air flow is 1,100 ACFM. Air to Cloth ratio is 4.6:l. Fan motor is rated at 5 hp. Unit serves Raw Meal Silo ES4.

1. The owner/operator, (o/o), shall install, operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This baghouse shall operate concurrently with the Blending Silo under valid District permit T008472. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

4. The 010 shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications, which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with

the log kept on site for a minimum of five (5) years. This log shall be provided to District personnel on request. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. This baghouse does not require regular emissions testing beyond that described in District Permit T008472, but the District may require testing at its discretion. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. Visual emissions shall be monitored pursuant to 40 CFR 63.1350.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 63.1350, 40 CFR 70.6(a)(3)(B)]

107. BAGHOUSE (DBH6A) - MDAQMD PERMIT # C010085; consisting of:

G.E. Energy model 07-RH-057-1 IA, PulseJet type with 64 Polyester Bags, each measuring 5.75" diameter x 120.5" long. 5000 cfm, 967 ft2 cloth area, Air to Cloth ratio is 5.2:l. 25 hp fan motor. Used in the Limestone Raw Grinding System.

1. The owner/operator (0/0) 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

2. 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. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. This baghouse shall be operated in compliance with 40 CFR 60 Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B), 40 CFR Subpart OOO]

4. This baghouse shall discharge no more than 0.86 pounds per hour of PM10 at a maximum concentration of 0.02 grains/dscf at the operating conditions given in the above description (BACT). [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

5. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

6. This baghouse shall operate concurrently with the Roll Press No. 1 System, under valid District permit number B007336. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

108. ALTERNATIVE FUEL TRANFER, STORAGE & INJECTION PROCESS; District Permit Number B010327; Consisting of:

Capacity	Equipment Description
15	West Silo Discharge Augers, (2) 18" Discharge Auger 12' Centerlines inlet to discharge
0	Walking Floor 24' X 5.5' X 10'
1.5	West Silo Reclaim Hydraulic Power Unit
0	Truck Unloading Hopper 30' X 30' X 15' Hopper for two Trucks
0	Two Double Tipping Valve, one for No.2 Kiln, and one for No. 3 kiln
150	Pneumatic Transport System Fuller Pipe Blower
7.4	Rotary Feeder 5.5 Kw Motor
100	Weigh Belt Feeder 24' x 5.5' x 10' w-100 hp Blower
351	Rating Bhp

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

3. Alternative materials is conveyed through completely enclosed tubes and conveying equipment and shall not exhibit any visible emissions. [Rule 204]

4. Alternative materials unloading operations shall not exhibit any visible emissions. [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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

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.
[Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

109. <u>DIESEL IC ENGINE PUMP, EMERGENCY; District Permit Number E009245; Consisting of:</u> One Onan, 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. This equipment powers a Pump Model No. and Serial No. , rated at.

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. [40 CFR Part 63, Subpart ZZZZ; Rule 204]

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 comers first; and
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 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. [Rule 204]

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. NOx - 42,207 lbs (verified by CEMS and CERMS for kiln and Source Test and Production Logs for Roll Press Burners and other combustion sources)
b. 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) on and after October 1, 2009
c. 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)
d. 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)
e. 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)
f. 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)
g. Clinker Cooler Stack TSP (Q2 clinker cooler only) - 699 lbs (verified by annual source test and clinker production) [Rule 204, 40 CFR 52.220(c)(39)(ii)(B)]

110. DIESEL IC ENGINE, EMERGENCY GENERATOR; District Permit Number E012225; Consisting of:

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) and 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 owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of three (3) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information: a. Date of each use and duration of each use (in hours); b. Reason for use (testing & maintenance, emergency, required emission testing, etc.); 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 equipment 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]

111. DIESEL IC ENGINE, EMERGENCY GENERATOR; District Permit Number E012226; Consisting of: 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) and 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 owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of three (3) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information: a. Date of each use and duration of each use (in hours); b. Reason for use (testing & maintenance, emergency, required emission testing, etc.); 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 equipment 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]

112. ALTERNATIVE FUELS - STORAGE HALL AND CONVEYANCE SYSTEM; District Permit Number B011678; Consisting of:

150' by 100' storage hall to accommodate alternative, supplemental and engineered ~~fuels; pistachios, wood chips, tire fluff and future~~ 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 RECEPCION SILO SH-3200.13100-H2000 SECON N1; Motor is an SIEMENS-F-180L, 36 hp, operating at 1800 RPM

36 RECEPCION SILO SH-3200.13100-H2000 SECON N2; Motor is an SIEMENS-F-180L, 36 hp, operating at 1800 RPM

90 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 DRAG CONVEYOR DOMENECH TLP-1500.18000-N1; Motor is an SIEMENS-F-160M, 24 hp, operating at 1800 RPM

5 MAGNETIC DRUM SEPARATOR DOMENECH SFP-415-N1; Motor is an SIEMENS-F-100L, 5 hp, operating at 1800 RPM

70 DRAG CONVEYOR DOMENECH TLP-1500.75000-N2; Motor 1, Motor 2, motors are SIEMENS-F-180L, 35 hp each, operating at 1800 RPM

90 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 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 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 SCREW CONVEYOR DOMENECH TSU-600; Motor is an SIEMENS-F-160M, 24 hp, operating at 1800 RPM

12 ROTARY VALVE DOMENECH ALV-800.800-NEUMAX N1; Motor is an SIEMENS-F-132M, 12 hp, operating at 1800 RPM

12 ROTARY VALVE DOMENECH ALV-800.800-NEUMAX N2; Motor is an SIEMENS-F-132M, 12 hp, operating at 1800 RPM

120 AIR BLOWER PG-303-F1-RNY34/30; Motor is an SIEMENS-F-280S, 120 hp, operating at 1800 RPM

120 AIR BLOWER PG-303-F1-RNY34/30; Motor is an SIEMENS-F-280S, 120 hp, operating at 1800 RPM

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. [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.[Rule 204]

3. All open material transfer points, such as conveyor drops, hopper and bin loading, shall be operated to minimize emissions of particulate matter.[Rule 204]

4. 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). [Rule 401]

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 two (2) years, and be provided to District, State and Federal personnel upon request.[Rule 204]

6. 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. [Rule 204, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

113. ALTERNATIVE FUELS - STORAGE HANDLING AND CONVEYANCE SYSTEM; District Permit Number B011939; Consisting of:

15 K2 -Screw Conveyor 1 - motor
3 K2- Screw Weigh Feeder 1 - motor
1.5 K2- Rotary feeder 1 - motor
150 k2-Transport Blower 1 - motor
0.75 K2- Transport Blower 1 cooling fan - motor
2 K3- Rotary feeder airlock impact - motor
2 K3- Rotary feeder airlock metering - motor
3 k3- Screw weigh Feeder 1 - motor
1 K3 - Rotary Feeder airlock metering - motor
60 K3- transport blower 1 - motor
0.75 K3- Transport Blower 1 cooling fan - motor
10 Common hopper baghouse fan 1
3 Common hopper aeration fan 1 - motor
2 Common hopper rotary feeder 1 - motor
150 Transport blower 2 - motor
0.75 Transport blower 2 cooling fan - motor
404.75 Bhp

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. [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. [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. [Rule 204; Rule 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. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

114. CKD HANDLING SYSTEM COLLECTION HOPPER - BAGHOUSE; District Permit Number C011940; Consisting of:

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).

1. 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. [Rule 204]

2. 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].

3. This baghouse shall not discharge PM10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description. [Rule 1302]

4. 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. 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. Average PM emissions in lb/ton of clinker per Condition 12 (Not To Exceed 0.10 until September 9, 2015 when the PM shall Not Exceed 0.07); NOTE AVERAGE NEEDS TO BE DEFINED. [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years. [Rule 204]

7. 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. [Rule 1302]

8. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions. [Rule 1302]

9. 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 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.
[Rule 1303 – NSR Requirements]

10. Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this clinker cooler baghouse shall not exceed 0.10 lb/ton of clinker; September 9, 2015 and subsequent PM shall not exceed 0.07 lb/ton of clinker. [40 CFR part 63 subpart LLL section 63.1343]

11. No Later than September 9, 2015, PM shall be continuosly monitored with a properly functioning PM Monitor maintained and calibrated in accordance with manufacturers requirements and the requirements of subsection 63.1350(f)(4)(i). [Rule 1302]

12. This baghouse shall be equipped with a properly functioning Continuous Opacity Monitor (COM) that is installed, maintained and calibrated per manufacturer s recommendations. COM opacity shall not exceed 10% opacity at any time. [40 CFR 63 Subpart LLL]

13. An initial and annual PM performance test performed in accordance with EPA Method 5 or 5I consisting of three 1-hr tests shall be conducted within 90 days of this equipment becoming operational and annually thereafter. This condition is NOT required once the PM monitor is installed and operating properly. [Rule 204]

14. This equipment shall not be operated until the road paving project at the Quarry 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

15. 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. [Rule 204]

115. CKD HANDLING SYSTEM - QUARRY SILO BAGHOUSE; District Permit Number C011941; Consisting of:

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).

1. 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. [Rule 204]

2. 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].

3. This baghouse shall not discharge PM10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description. [Rule 1302]

4. 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. 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. Average PM emissions in lb/ton of clinker per Condition 12 (Not To Exceed 0.10 until

September 9, 2015 when the PM shall Not Exceed 0.07); NOTE AVERAGE NEEDS TO BE DEFINED. [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years. [Rule 204]

7. 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. [Rule 1302]

8. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions. [Rule 1302]

9. 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 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. [Rule 1303 – NSR Requirements]

10. Pursuant to 40 CFR part 63 subpart LLL, PM emissions from this clinker cooler baghouse shall not exceed 0.10 lb/ton of clinker; September 9, 2015 and subsequent PM shall not exceed 0.07 lb/ton of clinker. [40 CFR part 63 subpart LLL section 63.1343]

11. No Later than September 9, 2015, PM shall be continuosly monitored with a properly functioning PM Monitor maintained and calibrated in accordance with manufacturers requirements and the requirements of subsection 63.1350(f)(4)(i). [Rule 1302]

12. This baghouse shall be equipped with a properly functioning Continuous Opacity Monitor (COM) that is installed, maintained and calibrated per manufacturers recommendations. COM opacity shall not exceed 10% opacity at any time. [40 CFR 63 Subpart LLL]

13. An initial and annual PM performance test performed in accordance with EPA Method 5 or 5I consisting of three 1-hr tests shall be conducted within 90 days of this equipment becoming operational and annually thereafter. This condition is NOT required once the PM monitor is installed and operating properly. [Rule 204]

14. 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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

15. 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. [Rule 204]

116. EXTERIOR SOLID FUEL STORAGE, EMERGENCY; District Permit Number T009036; Consisting of:

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.

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.

117. CKD QUARRY SILO; District Permit Number T011937; Consisting of:

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. [Rule 1303]

2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications. [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. [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. [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; SER's are calculated to be 2.15 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204;

Rule 1303]

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. [Rule 204]

LIMESTONE INJECTION EQUIPMENT

1. LIMESTONE INJECTION PROCESS - MDAQMD PERMIT # B012195; consisting of: Weigh Hopper, Blower, Rotory 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. [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. [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. [Rule 204; Rule 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 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]

7. This equipment shall not be operated until the road paving project at the Quarry Plant is complete as the emissions from this equipment has been offset by simultaneous emission reductions (SERS) from the road paving project. 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; SER's are calculated to be 0.64 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

2. LISBH1 SILO - BAGHOUSE - MDAQMD PERMIT # C012194;

consisting of: Kiln Q2 Limestone Silo Baghouse with a Design Gas Flow rate of 1000 cubic feet per minute; 270 sq ft of filtration area; 16 oz polyester felt cartridges; Serves Limestone Storage Silo (T012193).

1. 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. [Rule 204]

2. 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].

3. This baghouse shall not discharge PM10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description. [Rule 1302]
4. 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. Weekly reading of baghouse pressure drop, date and value; b. Quarterly felt cartridge inspection date and results; c. Date of cartridge replacements; and d. Date and nature of any system repairs [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years. [Rule 204]

7. 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. [Rule 1302]

8. 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 grains/dscf 0.0044gr/dscf (Maunfacturers specification) 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. [Rule 1303 - NSR Requirements]

9. This equipment shall not be operated until the road paving project at the Quarry Plant is complete as the emissions from this equipment has been offset by simultaneous emission reductions (SERS) from the road paving project. 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; SER's are calculated to be 0.64 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

3. LISBH2 SILO – BAGHOUSE - MDAQMD PERMIT # C012196;

consisting of: Kiln Q3 Limestone Silo Baghouse with a Design Gas Flow rate of 1000 cubic feet per minute; 270 sq ft of filtration area; 16 oz polyester felt cartridges; Serves Limestone Storage Silo (T012252).

1. 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. [Rule 204]

2. 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].

3. This baghouse shall not discharge PM10 in excess of 0.005 grains/dscf (BACT) at the operating conditions given in the above description. [Rule 1302]

4. 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. Weekly reading of baghouse pressure drop, date and value; b. Quarterly felt cartridge inspection date and results; c. Date of cartridge replacements; and d. Date and nature of any system repairs [Rule 1302]

5. 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. [Rule 204]

6. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, State, or Federal personal upon request. The record shall be retained for a minimum period of five (5) years. [Rule 204]

7. 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. [Rule 1302]

8. 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 grains/dscf 0.0044gr/dscf (Maunfacturers specification) 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. [Rule 1303 - NSR Requirements]

9. This equipment shall not be operated until the road paving project at the Quarry Plant is complete as the emissions from this equipment has been offset by simultaneous emission reductions (SERS) from the road paving project. 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; SER's are calculated to be 0.64 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

4. LIS1 Limestone SILO - MDAQMD PERMIT # T012193; consisting of:

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. [Rule 1303]

2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications. [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. [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. [Rule 204]

5. This equipment shall not be operated until the road paving project at the Quarry Plant is complete as the emissions from this equipment has been offset by simultaneous emission reductions (SERS) from the road paving project. 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; SER's are calculated to be 0.64 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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.

[Rule 204]

5. LIS2 Lime SILO**- MDAQMD PERMIT # T012252; consisting of:** 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. [Rule 1303]

2. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications. [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. [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. [Rule 204]

5. This equipment shall not be operated until the road paving project at the Quarry Plant is complete as the emissions from this equipment has been offset by simultaneous emission reductions (SERS) from the road paving project. 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; SER's are calculated to be 0.64 tpy of PM-10. Once complete, this road shall be maintained in good order, free from pot holes and excessive dirt. [Rule 204; Rule 1303]

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. [Rule 204]

AUXILIARY PLANTWIDE EQUIPEMENT

1. DIESEL IC ENGINE, EMERGENCY FIREWATER PUMP, District Permit Number E013353; Consisting of: consisting of: 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.
[40 CFR 60.4211; District Rule 204]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40 CFR 60.4209; Title 17 CCR 93115.10(d)]

3. This engine 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: 1. A minimum cetane index of 40; or, 2. A maximum aromatic content of 35 volume percent.
[17 CCR 93115.5(a) and 40 CFR 80.510(c)] Note: Use of CARB certified ULSD fuel satisfies the above 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.
[17 CCR 93115.6(b), District Rule 204]

5. 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. Date of each use and duration of each use (in hours per hour 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 (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log).
[40 CFR 70.6(a)(3)(ii)(b), 40 CFR 60.4214, 17 CCR 93115.10(f), District Rule 204]

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, and 40 CFR 51, Subpart A]

2. DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR, District Permit Number B013522; Consisting of: 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. [Title 17 CCR 93116.2(bb)] [District Rules 1302, 1303, and 1320]

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 System.
Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[40 CFR 60.4211, MDAQMD Rule 1302]

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.
[Title 17 CCR 93116, District Rule 1302]

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, and 40 CFR 51, Subpart A]

3. DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR, District Permit Number B013523; Consisting of: 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.
[Title 17 CCR 93116.2(bb)] [District Rules 1302, 1303, and 1320]

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 System.
Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[40 CFR 60.4211, MDAQMD Rule 1302]

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 8760 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.
[Title 17 CCR 93116, District Rule 1302]

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, and 40 CFR 51, Subpart A]

GROUP # 5 – 40 CFR 63 Subpart LLL Related Equipment

MACT STANDARD -- PORTLAND CEMENT MANUFACTURING INDUSTRY

40 CFR 63 Subpart LLL

Effective Date: June 14, 1999

Affected Sources	Pollutant	Emission limit by Source Type			Monitoring and Compliance							
40 CFR 63.1340(b)					Performance Testing					Monitoring Requirements [2 & 3]		
		Area	Major	Code	Method	Code	Initial Compliance Date		Frequency	Method	Code	Frequency
				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	0.30 lb per ton of feed (dry basis) [10]		63.1343(b)(1)	Method 5	63.1349(b)(1)	June 14, 2002	on Start up	5 years	PM CEMS [7]	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,	on	Daily	Method 9	63.1350(c)(2)	Daily

							2002	Start up				
PMCD inlet greater than 400º F	Dioxins/furans	$8.7x10^{-11}$ gr per dscf @ 7% O_2		63.1343(b)(3)	Method 23	63.1349(b)(3)	June 14, 2002	on Start up	30 months	Temperature	63.1350(f)	Continuous
										Inspection [4]	63.1350(I)	Annual
PMCD inlet equal to or less than 400º F	Dioxins/furans	$1.7x10^{-10}$ gr per dscf @ 7% O_2		63.1343(b)(3)	Method 23	63.1349(b)(3)	June 14, 2002	on Start up	30 months	Temperature	63.1350(f)	Continuous
										Inspection [4]	63.1350(I)	Annual
Kiln and in-line kiln/raw mill, new Greenfield	THC	50 ppmvd as propane @ 7% O2	50 ppmvd as propane @ 7% O2	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			
	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 [8]	63.1350(e)	Daily [9]
Finish mill	Opacity		10%	63.1347	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 6m [8]	63.1350(e)	Daily [9]
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 [8]	63.1350(a)(4) & (j)	M/SA/A [5]
Raw material dryer, new Greenfield	THC	50 ppmvd as propane @ 7% O2	50 ppmvd as propane @ 7% O2	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 [8]	63.1350(a)(4) & (j)	M/SA/A [5]

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 [8]	63.1350(a)(4) & (j)	M/SA/A [5]
Conveying system transfer point [1]	Opacity		10%	63.1348	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 1m [8]	63.1350(a)(4) & (j)	M/SA/A [5]
Bagging system			10%	63.1348	Method 9	63.1349(b)(2)	June 14, 2002	on Start up	5 years	Method 22 - 1m [8]	63.1350(a)(4) & (j)	M/SA/A [5]
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 [8]	63.1350(a)(4) & (j)	M/SA/A [5]
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))
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

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)

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	63.10(d)(5)(i)

kiln/raw mill											months	
PM			0.15 kg per Mg						Not consistent with SSM	2 working days [6]	63.10(d)(5)(ii)	
Dioxins/furans									CMS Evaluations	within 60 days	63.8(e)(5)	
	PMCD inlet greater than 400° F		0.20 ng per dscm @ 7% O_2						Summary Report	Semiannually	63.10(e)(3)(vi)	
	PMCD inlet equal to or less than 400° F		0.40 ng per dscm @ 7% O_2									
Clinker Cooler								Record keeping - 40 CFR 63.1355				
PM			0.05 kg per Mg						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							
40 CFR 63.1340(b)					Performance Testing					Monitoring Requirements [2] & 3		
		Area	Major	Code	Method	Code	Initial Compliance Date		Frequency	Method	Code	Frequency
				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.[10]		63.1343(b)(1)	Method 5	63.1349(b)(1)	September 9, 2015	on Start up	12 months	PM CEMS [7]	63.1350(k)	Continuous
PMCD inlet greater than 400° F	Dioxins/furans	0.02 ng per dscm @ 7% O_2 for existing units. 0.4		63.1343(b)(3)	Method 23	63.1349(b)(3)	September 9, 2015	on Start up	30 months	Temperature	63.1350(f)	Continuous

		ng per dscm @ 7% O_2 for new units.										
										Inspection [4]	63.1350(I)	Annual
PMCD inlet equal to or less than 400° F	Dioxins/furans	0.02 ng per dscm @ 7% O_2 for existing units. 0.4 ng per dscm @ 7% O_2 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 [4]	63.1350(I)	Annual
Kiln and in-line kiln/raw mill, new Greenfield	THC	24 ppmvd as propane @ 7% O2	24 ppmvd as propane @ 7% O2	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. 0.02 lb/ton clinker for new units		63.1345(a)(1)	Method 5	63.1349(b)(1)	September 9, 2015	on Start up	12 months			
Raw mill	Opacity		10%	63.1347	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 6m [8]	63.1350(e)	Daily [9]
Finish mill	Opacity		10%	63.1347	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 6m [8]	63.1350(e)	Daily [9]
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,	Opacity		10%	63.1348	Method 9	63.1349(b)(2)	September	on	5 years	Method 22 -	63.1350(a)(4)	M/SA/A [5]

clinker, or finished product storage bin							9, 2015	Start up		1m [8]	& (j)	
Conveying system transfer point [1]	Opacity		10%	63.1348	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 1m [8]	63.1350(a)(4) & (j)	M/SA/A [5]
Bagging system			10%	63.1348	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 1m [8]	63.1350(a)(4) & (j)	M/SA/A [5]
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 [8]	63.1350(a)(4) & (j)	M/SA/A [5]
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))
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

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)

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	63.10(d)(5)(i)

kiln/raw mill										months	
PM			0.15 kg per Mg					Not consistent with SSM	2 working days [6]	63.10(d)(5)(ii)	
Dioxins/furans								CMS Evaluations	within 60 days	63.8(e)(5)	
	PMCD inlet greater than 400° F		0.20 ng per dscm @ 7% O_2					Summary Report	Semiannually	63.10(e)(3)(vi)	
	PMCD inlet equal to or less than 400° F		0.40 ng per dscm @ 7% O_2								
Clinker Cooler								Record keeping - 40 CFR 63.1355			
PM			0.05 kg per Mg					Record Retention	5 years	63.10(b)(1)	
								Retention on-site	2 years	63.10(b)(1)	

98. Subpart LLL--National Emission Standards For Hazardous Air Pollutants From The Portland Cement Manufacturing Industry

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40 CFR 63.1340 Applicability And Designation Of Affected Sources.
(a) Except as specified in paragraphs (b) and (c) of this section, 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:
(b)(1) Each kiln and each in-line kiln/raw mill at any major or area source, including alkali bypasses, except for kilns and in-line kiln/raw mills that burn hazardous waste and are subject to and regulated under subpart EEE of this part;
(b)(2) Each clinker cooler at any portland cement plant which is a major source;
(b)(3) Each raw mill at any portland cement plant which is a major source;
(b)(4) Each finish mill at any portland cement plant which is a major source;
(b)(5) Each raw material dryer at any portland cement plant which is a major source and each greenfield raw material dryer at any portland cement plant which is a major or area source;
(b)(6) Each raw material, clinker, or finished product storage bin at any portland cement plant which is a major source;
(b)(7) Each conveying system transfer point at any portland cement plant which is a major source;
(b)(8) Each bagging system at any portland cement plant which is a major source; and
(b)(9) Each bulk loading or unloading system at any portland cement plant which is a major source.
(c) For portland cement plants with on-site nonmetallic mineral processing facilities, the first affected source in the sequence of materials handling operations subject to this subpart is the raw material storage, which is just prior to the raw mill. The primary and secondary crushers and any other equipment of the on-site nonmetallic mineral processing plant which precedes the raw material storage are not subject to this subpart. Furthermore, the first conveyor transfer point subject to this subpart is the transfer point associated with the conveyor transferring material from the raw material storage to the raw mill.

(d) The owner or operator of any affected source subject to the provisions of this subpart is subject to title V permitting requirements. [64 FR 31898, June 14, 1999]

40 CFR 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.

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.

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 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, that produces clinker by heating limestone and other materials for subsequent production of portland cement.
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.
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.
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 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 average of all one-minute averages over the averaging period.
Run average means the average of the one-minute parameter values for a run.
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.
[64 FR 31898, June 14, 1999]

40 CFR 63.1342 Standards: General.

(a) 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.

(b) Table 1 of this section provides a summary of emission limits and operating limits of this subpart.

TABLE 1 TO §63.1342.--EMISSION LIMITS AND OPERATING LIMITS

Affected source	Pollutant or opacity	Emission and operating limit
All kilns and in-line kiln/raw mills at major sources (including alkali bypass).	PM	0.15 kg/Mg of feed (dry basis).
	Opacity	20 percent.
All kilns and in-line kiln/raw mills at major and area sources (including alkali bypass).	D/F	0.20 ng TEQ/dscm or 0.40 ng TEQ/dscm when the average of the performance test run average particulate matter control device (PMCD) inlet temperatures is 204°C or less. [Corrected to 7 percent oxygen] Operate such that the three-hour rolling average PMCD inlet temperature is no greater than the temperature established at performance test. If activated carbon injection is used: Operate such that the three-hour rolling average activated carbon injection rate is no less than rate established at performance test. Operate such that either the carrier gas flow rate or carrier gas pressure drop exceeds the value established at performance test. Inject carbon of equivalent specifications to that used at performance test.
New greenfield kilns and in-line kiln/raw mills at major and area sources.	THC	50 ppmvd, as propane, corrected to 7 percent oxygen.
All clinker coolers at major sources.	PM	0.050 kg/Mg of feed (dry basis)

| Opacity.....| 10 percent.
All raw mills and finish mills at major sources. | Opacity.....| 10 percent.
New greenfield raw material dryers at major and area sources. | THC.....| 50 ppmvd, as propane, corrected to 7 percent oxygen.
All raw material dryers and material handling points at major sources. | Opacity.....| 10 percent.

[64 FR 31898, June 14, 1999]

40 CFR 63.1343 Standards For Kilns And In-Line Kiln/Raw Mills.
(a) General. The provisions in this section apply to each kiln, each in-line kiln/raw mill, and any alkali bypass associated with that kiln or in-line kiln/raw mill.
(b) Existing, reconstructed, or new brownfield/major sources. No owner or operator of an existing, reconstructed or new brownfield kiln or an existing, reconstructed or new brownfield in-line kiln/raw mill at a facility that is a major source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from these affected sources, any gases which:
(b)(1) Contain particulate matter (PM) in excess of 0.15 kg per Mg (0.30 lb per ton) of feed (dry basis) to the kiln. When there is an alkali bypass associated with a kiln or in-line kiln/raw mill, the combined particulate matter emissions from the kiln or in-line kiln/raw mill and the alkali bypass are subject to this emission limit.
(b)(2) Exhibit opacity greater than 20 percent.
(b)(3) Contain D/F in excess of:
(b)(3)(i) 0.20 ng per dscm (8.7 x 10-11 gr per dscf) (TEQ) corrected to seven percent oxygen; or
(b)(3)(ii) 0.40 ng per dscm (1.7 x 10-10 gr per dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204°C (400°F) or less.
(c) Greenfield/major sources. No owner or operator that commences construction of a greenfield kiln or greenfield inline kiln/raw mill at a facility which is a major source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from these affected sources any gases which:
(c)(1) Contain particulate matter in excess of 0.15 kg per Mg (0.30 lb per ton) of feed (dry basis) to the kiln. When there is an alkali bypass associated with a kiln or in-line kiln/raw mill, the combined particulate matter emissions from the kiln or in-line kiln/raw mill and the bypass stack are subject to this emission limit.
(c)(2) Exhibit opacity greater than 20 percent.
(c)(3) Contain D/F in excess of:
(c)(3)(i) 0.20 ng per dscm (8.7 x 10-11 gr per dscf) (TEQ) corrected to seven

percent oxygen; or
(c)(3)(ii) 0.40 ng per dscm (1.7 x 10-10 gr per dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204°C (400°F) or less.
(c)(4) Contain total hydrocarbon (THC), from the main exhaust of the kiln or in-line kiln/raw mill, in excess of 50 ppmvd as propane, corrected to seven percent oxygen.
(d) Existing, reconstructed, or new brownfield/area sources. No owner or operator of an existing, reconstructed, or new brownfield kiln or an existing, reconstructed or new brownfield in-line kiln/raw mill at a facility that is an area source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from these affected sources any gases which contain D/F in excess of:
(d)(1) 0.20 ng per dscm (8.7 x 10-11 gr per dscf) (TEQ) corrected to seven percent oxygen; or
(d)(2) 0.40 ng per dscm (1.7 x 10-10 gr per dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204°C (400°F) or less.
(e) Greenfield/area sources. No owner or operator of a greenfield kiln or a greenfield in-line kiln/raw mill at a facility that is an area source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from these affected sources any gases which:
(e)(1) Contain D/F in excess of:
(e)(1)(i) 0.20 ng per dscm (8.7 x 10-11 gr per dscf) (TEQ) corrected to seven percent oxygen; or
(e)(1)(ii) 0.40 ng per dscm (1.7 x 10-11 gr per dscf) (TEQ) corrected to seven percent oxygen, when the average of the performance test run average temperatures at the inlet to the particulate matter control device is 204°C (400°F) or less.
(e)(2) Contain THC, from the main exhaust of the kiln or in-line kiln/ raw mill, in excess of 50 ppmvd as propane, corrected to seven percent oxygen.
[64 FR 31898, June 14, 1999]

40 CFR 63.1344 Operating Limits For Kilns And In-Line Kiln/Raw Mills.
(a) The owner or operator of a kiln subject to a D/F emission limitation under §63.1343 must operate the kiln such that the temperature of the gas at the inlet to the kiln particulate matter 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 emission limitation under §63.1343 must operate the in-line kiln/raw mill, such that:
(a)(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.
(a)(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.
(a)(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 when the raw mill was operating, is not exceeded.
(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) The owner or operator of an affected source subject to a D/F emission limitation under §63.1343 that employs carbon injection as an emission control technique must operate the carbon injection system in accordance with paragraphs (c)(1) and (c)(2) of this section.
(c)(1) The three-hour rolling average activated carbon injection rate shall be equal to or greater than the activated carbon injection rate determined in accordance with §63.1349(b)(3)(vi).
(c)(2) The owner or operator shall either:
(c)(2)(i) Maintain the minimum activated carbon injection carrier gas flow rate, as a three-hour rolling average, based on the manufacturer's specifications. These specifications must be documented in the test plan developed in accordance with §63.7(c), or
(c)(2)(ii) Maintain the minimum activated carbon injection carrier gas pressure drop, as a three-hour rolling 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, the owner or operator of an affected source subject to a D/F emission limitation under §63.1343 that employs carbon injection as an emission control technique must specify and use the brand and type of activated carbon 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) The owner or operator of an affected source subject to a D/F emission limitation under §63.1343 that employs carbon injection as an emission control technique may substitute, at any time, a different brand or type of activated carbon provided that the replacement has equivalent or improved properties compared to the activated carbon specified in the site-specific performance test plan and used in the performance test. The owner or operator must maintain documentation that the substitute activated carbon will provide the same or better level of control as the original activated carbon.
[64 FR 31898, June 14, 1999]

40 CFR 63.1345 Standards For Clinker Coolers.
(a) No owner or operator of a new or existing clinker cooler at a facility which is a major source subject to the provisions of this subpart shall cause to be discharged into the atmosphere from the clinker cooler any gases which:
(a)(1) Contain particulate matter in excess of 0.050 kg per Mg (0.10 lb per ton) of feed (dry basis) to the kiln.
(a)(2) Exhibit opacity greater than ten percent.
(b) [Reserved].
[64 FR 31898, June 14, 1999]

40 CFR 63.1346 Standards For New And Reconstructed Raw Material Dryers.
(a) Brownfield/major sources. No owner or operator of a new or reconstructed brownfield raw material dryer at a facility which is a major source subject to this subpart shall cause to be discharged into the atmosphere from the new or reconstructed raw material dryer any gases which exhibit opacity greater than ten percent.
(b) Greenfield/area sources. No owner or operator of a greenfield raw material dryer at a facility which is an area source subject to this subpart shall cause to be discharged into the atmosphere from the greenfield raw material dryer any gases which contain THC in excess of 50 ppmvd, reported as propane, corrected to seven percent oxygen.
(c) Greenfield/major sources. No owner or operator of a greenfield raw material dryer at a facility which is a major source subject to this subpart shall cause to be discharged into the atmosphere from the greenfield raw material dryer any gases which:
(c)(1) Contain THC in excess of 50 ppmvd, reported as propane, corrected to seven percent oxygen.
(c)(2) Exhibit opacity greater than ten percent.
[64 FR 31898, June 14, 1999]

40 CFR 63.1347 Standards For Raw And Finish Mills.
The owner or operator of each new or existing raw mill or finish mill at a facility which is a major source subject to the provisions of this subpart shall not cause to be discharged from the mill sweep or air separator air pollution control devices of these affected sources any gases which exhibit opacity in excess of ten percent. [64 FR 31898, June 14, 1999]

40 CFR 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.
The owner or operator of each new or existing raw material, clinker, or finished product storage bin; conveying system transfer point; bagging system; and bulk loading or unloading system; and each existing raw material dryer, at a facility which is a major source subject to the provisions of this subpart shall not cause to be discharged any gases from these affected sources which exhibit opacity in excess of ten percent. [64 FR 31898, June 14, 1999]

40 CFR 63.1349 Performance Testing Requirements.

(a) The owner or operator of an affected source subject to this subpart shall demonstrate initial compliance with the emission limits of §63.1343 and §§63.1345 through 63.1348 using the test methods and procedures in paragraph (b) of this section and §63.7. Performance test results shall be documented in complete test reports that contain the information required by paragraphs (a)(1) through (a)(10) of this section, as well as all other relevant information. The plan to be followed during testing shall be made available to the Administrator prior to testing, if requested.

(a)(1) A brief description of the process and the air pollution control system;

(a)(2) Sampling location description(s);

(a)(3) A description of sampling and analytical procedures and any modifications to standard procedures;

(a)(4) Test results;

(a)(5) Quality assurance procedures and results;

(a)(6) Records of operating conditions during the test, preparation of standards, and calibration procedures;

(a)(7) Raw data sheets for field sampling and field and laboratory analyses;

(a)(8) Documentation of calculations;

(a)(9) All data recorded and used to establish parameters for compliance monitoring; and

(a)(10) Any other information required by the test method.

(b) Performance tests to demonstrate initial compliance with this subpart shall be conducted as specified in paragraphs (b)(1) through (b)(4) of this section.

(b)(1) The owner or operator of a kiln subject to limitations on particulate matter emissions shall demonstrate initial compliance by conducting a performance test as specified in paragraphs (b)(1)(i) through (b)(1)(iv) of this section. The owner or operator of an in-line kiln/raw mill subject to limitations on particulate matter emissions shall demonstrate initial compliance by conducting separate performance tests as specified in paragraphs (b)(1)(i) through (b)(1)(iv) of this section while the raw mill of the in-line kiln/raw mill is under normal operating conditions and while the raw mill of the in-line kiln/raw mill is not operating. The owner or operator of a clinker cooler subject to limitations on particulate matter emissions shall demonstrate initial compliance by conducting a performance test as specified in paragraphs (b)(1)(i) through (b)(1)(iii) of this section. The opacity exhibited during the period of the Method 5 of Appendix A to part 60 of this chapter performance tests required by paragraph (b)(1)(i) of this section shall be determined as required in paragraphs (b)(1)(v) through (vi) of this section.

(b)(1)(i) EPA Method 5 of appendix A to part 60 of this chapter shall be used to determine PM emissions. Each performance test shall consist of three separate runs under the conditions that exist when the affected source is operating at the highest load or capacity level reasonably expected to occur. Each run shall be conducted for at least one hour, and the minimum sample volume shall be 0.85 dscm (30 dscf). The average of the three runs shall be

used to determine compliance. A determination of the particulate matter collected in the impingers ("back half") of the Method 5 particulate sampling train is not required to demonstrate initial compliance with the PM standards of this subpart. However this shall not preclude the permitting authority from requiring a determination of the "back half" for other purposes.
(b)(1)(ii) Suitable methods shall be used to determine the kiln or inline kiln/raw mill feed rate, except for fuels, for each run.
(b)(1)(iii) The emission rate, E, of PM shall be computed for each run using equation 1:

Where:
E = emission rate of particulate matter, kg/Mg of kiln feed.
cs = concentration of PM, kg/dscm.
Qsd = volumetric flow rate of effluent gas, dscm/hr.
P = total kiln feed (dry basis), Mg/hr.
(b)(1)(iv) When there is an alkali bypass associated with a kiln or in-line kiln/raw mill, the main exhaust and alkali bypass of the kiln or in-line kiln/raw mill shall be tested simultaneously and the combined emission rate of particulate matter from the kiln or in-line kiln/raw mill and alkali bypass shall be computed for each run using equation 2,

Where:
Ec = the combined emission rate of particulate matter from the kiln or in-line kiln/raw mill and bypass stack, kg/Mg of kiln feed.
csk = concentration of particulate matter in the kiln or in-line kiln/raw mill effluent, kg/dscm.
Qsdk = volumetric flow rate of kiln or in-line kiln/raw mill effluent, dscm/hr.
csb = concentration of particulate matter in the alkali bypass gas, kg/dscm.
Qsdb = volumetric flow rate of alkali bypass gas, dscm/hr.
P = total kiln feed (dry basis), Mg/hr.
(b)(1)(v) Except as provided in paragraph (b)(1)(vi) of this section the opacity exhibited during the period of the Method 5 performance tests required by paragraph (b)(1)(i) of this section shall be determined through the use of a continuous opacity monitor (COM). The maximum six-minute average opacity during the three Method 5 test runs shall be determined during each Method 5 test run, and used to demonstrate initial compliance with the applicable opacity limits of §63.1343(b)(2), §63.1343(c)(2), or §63.1345(a)(2).
(b)(1)(vi) Each owner or operator of a kiln, in-line kiln/raw mill, or clinker cooler subject to the provisions of this subpart using a fabric filter with multiple stacks or an electrostatic precipitator with multiple stacks may, in lieu of installing the continuous opacity monitoring system required by paragraph (b)(1)(v) of this section, conduct an opacity test in accordance with Method 9 of appendix A to part 60 of this chapter during each Method 5 performance test required by paragraph (b)(1)(i) of this section. If the control device exhausts through a monovent, or if the use of a COM in accordance with the installation specifications of Performance Specification 1 (PS-1) of appendix B to part 60

of this chapter is not feasible, a test shall be conducted in accordance with Method 9 of appendix A to part 60 of this chapter during each Method 5 performance test required by paragraph (b)(1)(i) of this section. The maximum six-minute average opacity shall be determined during the three Method 5 test runs, and used to demonstrate initial compliance with the applicable opacity limits of §63.1343(b)(2), §63.1343(c)(2), or §63.1345(a)(2).

(b)(2) The owner or operator of any affected source subject to limitations on opacity under this subpart that is not subject to paragraph (b)(1) of this section shall demonstrate initial compliance with the affected source opacity limit by conducting a test in accordance with Method 9 of appendix A to part 60 of this chapter. The performance test shall be conducted under the conditions that exist when the affected source is operating at the highest load or capacity level reasonably expected to occur. The maximum six-minute average opacity exhibited during the test period shall be used to determine whether the affected source is in initial compliance with the standard. The duration of the Method 9 performance test shall 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) through (ii) of the section apply:

(b)(2)(i) There are no individual readings greater than 10 percent opacity;

(b)(2)(ii) There are no more than three readings of 10 percent for the first 1-hour period.

(b)(3) The owner or operator of an affected source subject to limitations on D/F emissions shall demonstrate initial compliance with the D/F emission limit by conducting a performance test using Method 23 of appendix A to part 60 of this chapter. The owner or operator of an in-line kiln/raw mill shall demonstrate initial compliance by conducting separate performance tests while the raw mill of the in-line kiln/raw mill is under normal operating conditions and while the raw mill of the in-line kiln/raw mill is not operating. The owner or operator of a kiln or in-line kiln/raw mill equipped with an alkali bypass shall conduct simultaneous performance tests of the kiln or in-line kiln/raw mill exhaust and the alkali bypass, however the owner or operator of an in-line kiln/raw mill is not required to conduct a performance test of the alkali bypass exhaust when the raw mill of the in-line kiln/raw mill is not operating.

(b)(3)(i) Each performance test shall consist of three separate runs; each run shall be conducted under the conditions that exist when the affected source is operating at the highest load or capacity level reasonably expected to occur. The duration of each run shall be at least three hours and the sample volume for each run shall be at least 2.5 dscm (90 dscf). The concentration shall be determined for each run and the arithmetic average of the concentrations measured for the three runs shall be calculated and used to determine compliance.

(b)(3)(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.

(b)(3)(iii) One-minute average temperatures must be calculated for each minute of each run of the test.
(b)(3)(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 §63.1344(b).
(b)(3)(v) If activated carbon injection is used for D/F control, the rate of activated carbon injection to the kiln or in-line kiln/raw mill exhaust, and where applicable, the rate of activated carbon injection to the alkali bypass exhaust, must be continuously recorded during the period of the Method 23 test, and the continuous injection rate record(s) must be included in the performance test report. In addition, the performance test report must include the brand and type of activated carbon used during the performance test and a continuous record of either the carrier gas flow rate or the carrier gas pressure drop for the duration of the test. Activated carbon injection rate parameters must be determined in accordance with paragraphs (b)(3)(vi) of this section.
(b)(3)(vi) The run average injection rate must be calculated for each run, and the average of the run average injection rates must be determined and included in the performance test report and will determine the applicable injection rate limit in accordance with §63.1344(c)(1).
(b)(4) The owner or operator of an affected source subject to limitations on emissions of THC shall demonstrate initial compliance with the THC limit by operating a continuous emission monitor in accordance with Performance Specification 8A of appendix B to part 60 of this chapter. The duration of the performance test shall be three hours, and the average THC concentration (as calculated from the one-minute averages) during the three hour performance test shall be calculated. The owner or operator of an in-line kiln/raw mill shall demonstrate initial compliance by conducting separate performance tests while the raw mill of the in-line kiln/raw mill is under normal operating conditions and while the raw mill of the in-line kiln/raw mill is not operating.
(c) Except as provided in paragraph (e) of this section, performance tests required under paragraphs (b)(1) and (b)(2) of this section shall be repeated every five years, except that the owner or operator of a kiln, in-line kiln/raw mill or clinker cooler is not required to repeat the initial performance test of opacity for the kiln, in-line kiln/raw mill or clinker cooler.
(d) Performance tests required under paragraph (b)(3) of this section shall be repeated every 30 months.
(e) The owner or operator is required to repeat the performance tests for kilns or in-line kiln/raw mills as specified in paragraphs (b)(1) and (b)(3) of this section within 90 days of initiating any significant change in the feed or fuel from that used in the previous performance test.
(f) Table 1 of this section provides a summary of the performance test requirements of this subpart.

TABLE 1 TO §63.1349--SUMMARY OF PERFORMANCE TEST REQUIREMENTS

Affected source and pollutant	Performance test
New and existing kiln and in-line kiln/raw mill b c PM	EPA Method 5.a
New and existing kiln and in-line kiln/raw mill b c Opacity	COM if feasible d e or EPA Method 9 visual opacity readings.
New and existing kiln and in-line kiln/raw mill b c f g D/F	EPA Method 23h.
New greenfield kiln and in-line kiln/raw mill c THC	THC CEM (EPA PS-8A)i.
New and existing clinker cooler PM	EPA Method 5a.
New and existing clinker cooler opacity	COM d,j or EPA Method 9 visual opacity readings.
New and existing raw and finish mill opacity	EPA Method 9.a j
New and existing raw material dryer and materials handling processes (raw material storage, clinker storage, finished product storage, conveyor transfer points, bagging, and bulk loading and unloading systems) opacity	EPA Method 9.a j
New greenfield raw material dryer THC	THC CEM (EPA PS-8A).i

a Required initially and every 5 years thereafter.
b Includes main exhaust and alkali bypass.
c In-line kiln/raw mill to be tested with and without raw mill in operation.
d Must meet COM performance specification criteria. If the fabric filter or electrostatic precipitator has multiple stacks, daily EPA Method 9 visual opacity readings may be taken instead of using a COM.
e Opacity limit is 20 percent.
f Alkali bypass is tested with the raw mill on.
g Temperature and (if applicable) activated carbon injection parameters determined separately with and without the raw mill operating.
h Required initially and every 30 months thereafter.
i EPA Performance Specification (PS)-8A of appendix B to 40 CFR part 60.
j Opacity limit is 10 percent. [64 FR 31898, June 14, 1999]

40 CFR 63.1350 Monitoring Requirements.

(a) The owner or operator of each portland cement plant shall prepare for each affected source subject to the provisions of this subpart, a written operations and maintenance plan. The plan shall be submitted to the Administrator for review and approval as part of the application for a part 70 permit and shall include the following information:
(a)(1) Procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emission limits and operating limits of §§63.1343 through 63.1348;
(a)(2) Corrective actions to be taken when required by paragraph (e) of this section;
(a)(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; and
(a)(4) Procedures to be used to periodically monitor affected sources subject to opacity standards under §§63.1346 and 63.1348. Such procedures must include the provisions of paragraphs (a)(4)(i) through (a)(4)(iv) of this section.
(a)(4)(i) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to part 60 of this chapter. The test must be conducted while the affected source is in operation.
(a)(4)(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 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.
(a)(4)(iii) 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.
(a)(4)(iv) If visible emissions are observed during any Method 22 test, the owner or operator must conduct a 6-minute test of opacity in accordance with Method 9 of appendix A to part 60 of this chapter. The Method 9 test must begin within one hour of any observation of visible emissions.
(b) Failure to comply with any provision of the operations and maintenance plan developed in accordance with paragraph (a) of this section shall be a violation of the standard.
(c) The owner or operator of a kiln or in-line kiln/raw mill shall monitor opacity at each point where emissions are vented from these affected sources including alkali bypasses in accordance with paragraphs (c)(1) through (c)(3) of this section.
(c)(1) Except as provided in paragraph (c)(2) of this section, the owner or

operator shall install, calibrate, maintain, and continuously operate a continuous opacity monitor (COM) located at the outlet of the PM control device to continuously monitor the opacity. The COM shall be installed, maintained, calibrated, and operated as required by subpart A, general provisions of this part, and according to PS-1 of appendix B to part 60 of this chapter.
(c)(2) The owner or operator of a kiln or in-line kiln/raw mill subject to the provisions of this subpart using a fabric filter with multiple stacks or an electrostatic precipitator with multiple stacks may, in lieu of installing the continuous opacity monitoring system required by paragraph (c)(1) of this section, monitor opacity in accordance with paragraphs (c)(2)(i) through (ii) of this section. If the control device exhausts through a monovent, or if the use of a COM in accordance with the installation specifications of PS-1 of appendix B to part 60 of this chapter is not feasible, the owner or operator must monitor opacity in accordance with paragraphs (c)(2)(i) through (ii) of this section.
(c)(2)(i) Perform daily visual opacity observations of each stack in accordance with the procedures of Method 9 of appendix A of part 60 of this chapter. The Method 9 test shall be conducted while the affected source is operating at the highest load or capacity level reasonably expected to occur within the day. The duration of the Method 9 test shall be at least 30 minutes each day.
(c)(2)(ii) Use the Method 9 procedures to monitor and record the average opacity for each six-minute period during the test.
(c)(3) To remain in compliance, the opacity must be maintained such that the 6-minute average opacity for any 6-minute block period does not exceed 20 percent. If the average opacity for any 6-minute block period exceeds 20 percent, this shall constitute a violation of the standard.
(d) The owner or operator of a clinker cooler shall monitor opacity at each point where emissions are vented from the clinker cooler in accordance with paragraphs (d)(1) through (d)(3) of this section.
(d)(1) Except as provided in paragraph (d)(2) of this section, the owner or operator shall install, calibrate, maintain, and continuously operate a COM located at the outlet of the clinker cooler PM control device to continuously monitor the opacity. The COM shall be installed, maintained, calibrated, and operated as required by subpart A, general provisions of this part, and according to PS-1 of appendix B to part 60 of this chapter.
(d)(2) The owner or operator of a clinker cooler subject to the provisions of this subpart using a fabric filter with multiple stacks or an electrostatic precipitator with multiple stacks may, in lieu of installing the continuous opacity monitoring system required by paragraph (d)(1) of this section, monitor opacity in accordance with paragraphs (d)(2)(i) through (ii) of this section. If the control device exhausts through a monovent, or if the use of a COM in accordance with the installation specifications of PS-1 of appendix B to part 60 of this chapter is not feasible, the owner or operator must monitor opacity in accordance with paragraphs (d)(2)(i) through (ii) of this section.
(d)(2)(i) Perform daily visual opacity observations of each stack in accordance with the procedures of Method 9 of appendix A of part 60 of this chapter. The

Method 9 test shall be conducted while the affected source is operating at the highest load or capacity level reasonably expected to occur within the day. The duration of the Method 9 test shall be at least 30 minutes each day.
(d)(2)(ii) Use the Method 9 procedures to monitor and record the average opacity for each six-minute period during the test.
(d)(3) To remain in compliance, the opacity must be maintained such that the 6-minute average opacity for any 6-minute block period does not exceed 10 percent. If the average opacity for any 6-minute block period exceeds 10 percent, this shall constitute a violation of the standard.
(e) The owner or operator of a raw mill or finish mill shall monitor opacity by conducting daily visual emissions observations of the mill sweep and air separator PMCDs of these affected sources, in accordance with the procedures of Method 22 of appendix A of part 60 of this chapter. The Method 22 test shall be conducted while the affected source is operating at the highest load or capacity level reasonably expected to occur within the day. The duration of the Method 22 test shall be six minutes. If visible emissions are observed during any Method 22 visible emissions test, the owner or operator must:
(e)(1) Initiate, within one-hour, the corrective actions specified in the site specific operating and maintenance plan developed in accordance with paragraphs (a)(1) and (a)(2) of this section; and
(e)(2) Within 24 hours of the end of the Method 22 test in which visible emissions were observed, conduct a visual opacity test of each stack from which visible emissions were observed in accordance with Method 9 of appendix A of part 60 of this chapter. The duration of the Method 9 test shall be thirty minutes.
(f) The owner or operator of an affected source subject to a limitation on D/F emissions shall monitor D/F emissions in accordance with paragraphs (f)(1) through (f)(6) of this section.
(f)(1) The owner or operator shall install, calibrate, maintain, and continuously operate a continuous monitor to record the temperature of the exhaust gases from the kiln, in-line kiln/raw mill and alkali bypass, if applicable, at the inlet to, or upstream of, the kiln, in-line kiln/raw mill and/or alkali bypass PM control devices.
(f)(1)(i) The recorder response range must include zero and 1.5 times either of the average temperatures established according to the requirements in §63.1349(b)(3)(iv).
(f)(1)(ii) The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.
(f)(2) The owner or operator shall monitor and continuously record the temperature of the exhaust gases from the kiln, in-line kiln/raw mill and alkali bypass, if applicable, at the inlet to the kiln, in-line kiln/raw mill and/or alkali bypass PMCD.
(f)(3) The three-hour rolling average temperature shall be calculated as the average of 180 successive one-minute average temperatures.

(f)(4) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average is added to the previous 179 values to calculate the three-hour rolling average.
(f)(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.
(f)(6) The calibration of all thermocouples and other temperature sensors shall be verified at least once every three months.
(g) The owner or operator of an affected source subject to a limitation on D/F emissions that employs carbon injection as an emission control technique shall comply with the monitoring requirements of paragraphs (f)(1) through (f)(6) and (g)(1) through (g)(6) of this section to demonstrate continuous compliance with the D/F emission standard.
(g)(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 ±1 percent of the rate being measured.
(g)(2) Verify the calibration of the device at least once every three months.
(g)(3) The three-hour rolling average activated carbon injection rate shall be calculated as the average of 180 successive one-minute average activated carbon injection rates.
(g)(4) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average is added to the previous 179 values to calculate the three-hour rolling average.
(g)(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 activated carbon injection rate must begin anew, without considering previous recordings.
(g)(6) The owner or operator must 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 paragraphs (g)(6)(i) through (g)(6)(iii) of this section.
(g)(6)(i) The owner or operator shall install, calibrate, operate and maintain a device to continuously monitor and record the parameter value.
(g)(6)(ii) The owner or operator must calculate and record three-hour rolling averages of the parameter value.
(g)(6)(iii) Periods of time when one-minute averages are not available shall be ignored when calculating three-hour rolling averages. When one-minute averages become available, the first one-minute average shall be added to the previous 179 values to calculate the three-hour rolling average.
(h) The owner or operator of an affected source subject to a limitation on THC emissions under this subpart shall comply with the monitoring requirements of paragraphs (h)(1) through (h)(3) of this section to demonstrate continuous

compliance with the THC emission standard:
(h)(1) The owner or operator shall install, operate and maintain a THC continuous emission monitoring system in accordance with 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.
(h)(2) The owner or operator is not required to calculate hourly rolling averages in accordance with section 4.9 of Performance Specification 8A.
(h)(3) Any thirty-day block average THC concentration in any gas discharged from a greenfield raw material dryer, the main exhaust of a greenfield kiln, or the main exhaust of a greenfield in-line kiln/raw mill, exceeding 50 ppmvd, reported as propane, corrected to seven percent oxygen, is a violation of the standard.
(i) The owner or operator of any kiln or in-line kiln/raw mill subject to a D/F emission limit under this subpart shall conduct an inspection of the components of the combustion system of each kiln or in-line kiln raw mill at least once per year.
(j) The owner or operator of an affected source subject to a limitation on opacity under §63.1346 or §63.1348 shall monitor opacity in accordance with the operation and maintenance plan developed in accordance with paragraph (a) of this section.
(k) The owner or operator of an affected source subject to a particulate matter standard under §63.1343 shall install, calibrate, maintain and operate a particulate matter continuous emission monitoring system (PM CEMS) to measure the particulate matter discharged to the atmosphere. The compliance deadline for installing the PM CEMS and all requirements relating to performance of the PM CEMS and implementation of the PM CEMS requirement is deferred pending further rulemaking.
(l) An owner or operator may submit an application to the Administrator for approval of alternate monitoring requirements to demonstrate compliance with the emission standards of this subpart, except for emission standards for THC, subject to the provisions of paragraphs (l)(1) through (l)(6) of this section.
(l)(1) The Administrator will not approve averaging periods other than those specified in this section, unless the owner or operator documents, 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.
(l)(2) If the application to use an alternate monitoring requirement is approved, the owner or operator must continue to use the original monitoring requirement until approval is received to use another monitoring requirement.
(l)(3) The owner or operator shall 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 (l)(3)(i) through (l)(3)(iii) of this section:
(l)(3)(i) Data or information justifying the request, such as the technical or

economic infeasibility, or the impracticality of using the required approach;
(l)(3)(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
(l)(3)(iii) Data or information documenting that the alternative monitoring requirement would provide equivalent or better assurance of compliance with the relevant emission standard.
(l)(4) The Administrator will notify the owner or operator 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:
(l)(4)(i) Notice of the information and findings upon which the intended disapproval is based; and
(l)(4)(ii) Notice of opportunity for the owner or operator to present additional supporting information before final action is taken on the application. This notice will specify how much additional time is allowed for the owner or operator to provide additional supporting information.
(l)(5) The owner or operator is 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 the owner or operator of the responsibility to comply with any provision of this subpart.
(l)(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.
(m) A summary of the monitoring requirements of this subpart is given in Table 1 to this section.

TABLE 1 TO §63.1350--MONITORING REQUIREMENTS

Affected source/pollutant or opacity	Monitor type/ operation/process	Monitoring requirements
All affected sources.....	Operations and maintenance plan.	Prepare written plan for all affected sources and control devices.
All kilns and in-line kiln raw mills at major sources (including alkali bypass)/	Continuous opacity monitor, if applicable.	Install, calibrate, maintain and operate in

opacity.		accordance with general provisions and with PS-1.
	Method 9 opacity test, if applicable	Daily test of at least 30-minutes, while kiln is at highest load or capacity level.
Kilns and in-line kiln raw mills at major sources (including alkali bypass)/ particulate matter.	Particulate matter continuous emission monitoring system.	Deferred.
Kilns and in-line kiln raw mills at major and area sources (including alkali bypass)/ D/F.	Combustion system inspection.	Conduct annual inspection of components of combustion system.
	Continuous temperature monitoring at PMCD inlet.	Install, operate, calibrate and maintain continuous temperature monitoring and recording system; calculate three-hour rolling averages; verify temperature sensor calibration at least quarterly.
Kilns and in-line kiln raw mills at major and area sources (including alkali bypass)/ D/F (continued).	Activated carbon injection rate monitor, if applicable.	Install, operate, calibrate and maintain activated carbon injection rate monitor; calculate three-hour rolling averages; verify calibration at least quarterly; install, operate, calibrate and maintain carrier gas flow rate monitor or carrier gas pressure drop monitor; calculate three-hour rolling

		averages; document carbon specifications.
New greenfield kilns and in-line kiln raw mills at major and area sources/THC.	Total hydrocarbon continuous emission monitor.	Install, operate, and maintain THC CEM in accordance with PS-8A; calculate 30-day block average THC concentration.
Clinker coolers at major sources/opacity.	Continuous opacity monitor, if applicable.	Install, calibrate, maintain and operate in accordance with general provisions and with PS-1.
	Method 9 opacity test, if applicable	Daily test of at least 30-minutes, while kiln is at highest load or capacity level.
Raw mills and finish mills at major sources/opacity.	Method 22 visible emissions test.	Conduct daily 6-minute Method 22 visible emissions test while mill is operating at highest load or capacity level; if visible emissions are observed, initiate corrective action within one hour and conduct 30-minute Method 9 test within 24 hours.
New greenfield raw material dryers at major and area sources/THC.	Total hydrocarbon continuous emission monitor.	Install, operate, and maintain THC CEM in accordance with PS-8A; calculate 30-day block average THC concentration.
Raw material dryers; raw material, clinker, finished product storage bins;	Method 22 visible emissions test.	As specified in operation and maintenance plan.

conveying system transfer points; bagging systems; and bulk loading and unloading systems at major sources/opacity.	

[64 FR 31898, June 14, 1999]

40 CFR 63.1351 Compliance Dates.
(a) The compliance date for an owner or operator of an existing affected source subject to the provisions of this subpart is June 10, 2002.
(b) The compliance date for an owner or operator of an affected source subject to the provisions of this subpart that commences new construction or reconstruction after March 24, 1998 is June 9, 1999 or immediately upon startup of operations, whichever is later. [64 FR 31898, June 14, 1999]

40 CFR 63.1352 Additional Test Methods.
(a) Owners or operators conducting tests to determine the rates of emission of hydrogen chloride (HCl) from kilns, in-line kiln/raw mills and associated bypass stacks at portland cement manufacturing facilities, for use in applicability determinations under §63.1340 are permitted to 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 hydrogen chloride (HCl) from kilns, in-line kiln/raw mills and associated bypass stacks at portland cement manufacturing facilities, for use in applicability determinations under §63.1340 are permitted to use Methods 26 or 26A of appendix A to part 60 of this chapter, except that the results of these tests shall not be used to establish status as an area source.
(c) Owners or operators conducting tests to determine the rates of emission of specific organic HAP from raw material dryers, kilns and in-line kiln/raw mills at portland cement manufacturing facilities, 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.
[64 FR 31898, June 14, 1999]

40 CFR 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:
(b)(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.
(b)(2) Notification of performance tests, as required by §§63.7 and 63.9(e).
(b)(3) Notification of opacity and visible emission observations required by §63.1349 in accordance with §§63.6(h)(5) and 63.9(f).
(b)(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.
(b)(5) Notification of compliance status, as required by §63.9(h).
[64 FR 31898, June 14, 1999]

40 CFR 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:
(b)(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.
(b)(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.
(b)(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.
(b)(4) As required by §63.10(d)(5), if actions taken by an owner or operator during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan specified in §63.6(e)(3), the owner or operator shall state such information in a semiannual report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period. The startup, shutdown, and malfunction report may be submitted simultaneously with the excess emissions and continuous monitoring system performance reports; and
(b)(5) Any time an action taken by an owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures in the startup, shutdown, and malfunction plan, the owner or operator shall make an immediate report of the actions taken for that event within 2 working days, by telephone call or facsimile (FAX)

transmission. The immediate report shall be followed by a letter, certified by the owner or operator or other responsible official, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred.
(b)(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.
(b)(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).
(b)(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.
(b)(9) The owner or operator shall submit a summary report semiannually which contains the information specified in §63.10(e)(3)(vi). In addition, the summary report shall include:
(b)(9)(i) All exceedences of maximum control device inlet gas temperature limits specified in §63.1344(a) and (b);
(b)(9)(ii) All failures to calibrate thermocouples and other temperature sensors as required under §63.1350(f)(7) of this subpart; and
(b)(9)(iii) All failures to maintain the activated carbon injection rate, and the activated carbon injection carrier gas flow rate or pressure drop, as applicable, as required under §63.1344(c).
(b)(9)(iv) The results of any combustion system component inspections conducted within the reporting period as required under §63.1350(i).
(b)(9)(v) All failures to comply with any provision of the operation and maintenance plan developed in accordance with §63.1350(a).
(b)(10) If the total continuous monitoring system downtime for any CEM or any continuous monitoring system (CMS) for the reporting period is ten 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.
[64 FR 31898, June 14, 1999]

40 CFR 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
(b)(1) All documentation supporting initial notifications and notifications of compliance status under §63.9;
(b)(2) All records of applicability determination, including supporting analyses; and
(b)(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).
[64 FR 31898, June 14, 1999]

40 CFR 63.1356 Exemption From New Source Performance Standards.
(a) Except as provided in paragraphs (a)(1) and (a)(2) of this section, any affected source subject to the provisions of this subpart is exempted from any otherwise applicable new source performance standard contained in 40 CFR part 60, subpart F.
(a)(1) Kilns and in-line kiln/raw mills, as applicable under 40 CFR 60.60(b), located at area sources are subject to PM and opacity limits and associated reporting and recordkeeping, under 40 CFR part 60, subpart F.
(a)(2) Greenfield raw material dryers, as applicable under 40 CFR 60.60(b), located at area sources are subject to opacity limits and associated reporting and recordkeeping under 40 CFR part 60, subpart F.
[64 FR 31898, June 14, 1999]

40 CFR 63.1357 Temporary, Conditioned Exemption From Particulate Matter And Opacity Standards.
(a) Subject to the limitations of paragraphs (b) through (f) of this section, an owner or operator conducting PM CEMS correlation tests (that is, correlation with manual stack methods) is exempt from:
(a)(1) Any particulate matter and opacity standards of part 60 or part 63 of this chapter that are applicable to cement kilns and in-line kiln/raw mills.
(a)(2) Any permit or other emissions or operating parameter or other limitation on workplace practices that are applicable to cement kilns and in-line kiln raw mills to ensure compliance with any particulate matter and opacity standards of this part or part 60 of this chapter.
(b) The owner or operator must develop a PM CEMS correlation test plan. The plan must be submitted to the Administrator for approval at least 90 days before the correlation test is scheduled to be conducted. The plan must

include:
(b)(1) The number of test conditions and the number of runs for each test condition;
(b)(2) The target particulate matter emission level for each test condition;
(b)(3) How the operation of the affected source will be modified to attain the desired particulate matter emission rate; and
(b)(4) The anticipated normal particulate matter emission level.
(c) The Administrator will review and approve or disapprove the correlation test plan in accordance with §63.7(c)(3)(i) and (iii). If the Administrator fails to approve or disapprove the correlation test plan within the time period specified in §63.7(c)(3)(iii), the plan shall be considered approved, unless the Administrator has requested additional information.
(d) The stack sampling team must be on-site and prepared to perform correlation testing no later than 24 hours after operations are modified to attain the desired particulate matter emissions concentrations, unless the correlation test plan documents that a longer period is appropriate.
(e) The particulate matter and opacity standards and associated operating limits and conditions will not be waived for more than 96 hours, in the aggregate, for a correlation test, including all runs and conditions.
(f) The owner or operator must return the affected source to operating conditions indicative of compliance with the applicable particulate matter and opacity standards as soon as possible after correlation testing is completed.
[64 FR 31898, June 14, 1999]

40 CFR 63.1358 Delegation Of Authority.
(a) In delegating implementation and enforcement authority to a State under subpart E of this part, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State.
(b) Authority which will not be delegated to States:
(b)(1) Approval of alternative non-opacity emission standards under §63.6(g).
(b)(2) Approval of alternative opacity standards under §63.6(h)(9).
(b)(3) Approval of major changes to test methods under §§63.7(e)(2)(ii) and 63.7(f). A major change to a test method is a modification to a federally enforceable test method that uses unproven technology or procedures or is an entirely new method (sometimes necessary when the required test method is unsuitable).
(b)(4) Approval of major changes to monitoring under §63.8(f). A major change to monitoring is a modification to federally enforceable monitoring that uses unproven technology or procedures, is an entirely new method (sometimes necessary when the required monitoring is unsuitable), or is a change in the averaging period.
(b)(5) Waiver of recordkeeping under §63.10(f).
[64 FR 31898, June 14, 1999]

40 CFR Table 1 To Subpart LLL Of Part 63--Applicability Of General Provisions

TABLE 1 TO SUBPART LLL--APPLICABILITY OF GENERAL PROVISIONS

General Provisions 40 CFR Citation	Requirement	Applies to Subpart LLL	Comment
63.1(a)(1) through (4)	Applicability	Yes.	
63.1(a)(5)		No.	[Reserved].
63.1(a)(6) through (a)(8)	Applicability	Yes.	
63.1(a)(9)		No.	[Reserved].
63.1(a)(10) through (14)	Applicability	Yes.	
63.1(b)(1)	Initial Applicability Determination.	No.	§63.1340 specifies applicability.
63.1(b)(2) and (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) and (5)	Extensions, Notifications.	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) through (c)	Units and Abbreviations	Yes.	
63.4(a)(1) through (a)(3)	Prohibited Activities.	Yes.	
63.4(a)(4)		No.	[Reserved].
63.4(a)(5)	Compliance date	Yes.	
63.4(b) and (c)	Circumvention, Severability.	Yes.	
63.5(a)(1) and (2)	Construction/ Reconstruction.	Yes.	
63.5(b)(1)	Compliance Dates	Yes.	
63.5(b)(2)		No.	[Reserved].

63.5(b)(3) through (6).....| Construction Approval, | Yes. |
| Applicability. | |
63.5(c).....| | No.....| [Reserved].
63.5(d)(1) through (4).....| Approval of | Yes. |
| Construction/ | |
| Reconstruction. | |
63.5(e).....| Approval of | Yes. |
| Construction/ | |
| Reconstruction. | |
63.5(f)(1) and (2).....| Approval of | Yes. |
| Construction/ | |
| Reconstruction. | |
63.6(a).....| Compliance for | Yes. |
| Standards and | |
| Maintenance. | |
63.6(b)(1) through (5).....| Compliance Dates.....| Yes. |
63.6(b)(6).....| | No.....| [Reserved].
63.6(b)(7).....| Compliance Dates.....| Yes. |
63.6(c)(1) and (2).....| Compliance Dates.....| Yes. |
63.6(c)(3) and (c)(4).....| .....| No.....| [Reserved].
63.6(c)(5).....| Compliance Dates.....| Yes. |
63.6(d).....| | No.....| [Reserved].
63.6(e)(1) and (e)(2).....| Operation & Maintenance| Yes. |
63.6(e)(3).....| Startup, Shutdown | Yes. |
| Malfunction Plan. | |
63.6(f)(1) through (3).....| Compliance with | Yes. |
| Emission Standards. | |
63.6(g)(1) through (g)(3).....| Alternative Standard...| Yes. |
63.6(h)(1) and (2).....| Opacity/VE Standards...| Yes. |
63.6(h)(3).....| | No.....| Reserved
63.6(h)(4) and (h)(5)(i).....| Opacity/VE Standards...| Yes. |
63.6(h)(5)(ii) through (iv).....| Opacity/VE Standards...| No.....| Test duration

specified
| | | in Subpart LLL.
63.6(h)(6).....| Opacity/VE Standards...| Yes. |
63.6(i)(1) through (i)(14).....| Extension of Compliance| Yes. |
63.6(i)(15).....| | No.....| [Reserved].
63.6(i)(16).....| Extension of Compliance| Yes. |
63.6(j).....| Exemption from | Yes. |
| Compliance. | |
63.7(a)(1) through (a)(3).....| Performance Testing | Yes.....| §63.1349 has
| Requirements. | | specific

requirements.
63.7(b).....| Notification.....| Yes. |

63.7(c).....| Quality Assurance/Test | Yes. |
| Plan. | |
63.7(d).....| Testing Facilities.....| Yes. |
63.7(e)(1) through (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
| | | CEM

requirements.
63.8(a)(3).....| | No.....| [Reserved].
63.8(a)(4).....| Monitoring.....| No.....| Flares not

applicable.
63.8(b)(1) through (3).....| Conduct of Monitoring..| Yes. |
63.8(c)(1) through (8).....| CMS Operation/ | Yes. | Performance
| Maintenance. | | specification
| | | supersedes
| | | requirements for

THC
| | | CEM. Temperature

and
| | | activated carbon
| | | injection

monitoring
| | | data reduction
| | | requirements

given in
| | | subpart LLL.
63.8(d).....| Quality Control.....| Yes. |
63.8(e).....| Performance Evaluation | Yes.....| Performance
| for CMS. | | specification
| | | supersedes
| | | requirements for

THC
| | | CEM.
63.8(f)(1) through (f)(5).....| Alternative Monitoring | Yes.....| Additional

requirements

| Method. | | in §1350(l).
63.8(f)(6).....| Alternative to RATA | Yes. |
| Test. | |
63.8(g).....| Data Reduction.....| Yes. |
63.9(a).....| Notification | Yes. |
| Requirements. | |
63.9(b)(1) through (5).....| Initial Notifications..| Yes. |
63.9(c).....| Request for Compliance | Yes. |
| Extension. | |
63.9(d).....| New Source Notification| Yes. |
| for Special Compliance| |
| Requirements. | |
63.9(e).....| Notification of | Yes. |
| Performance Test. | |
63.9(f).....| Notification of VE/ | Yes | Notification not
| Opacity Test. | | required for VE/
| | | opacity test

under
| | | §63.1350(e) and
| | | (j).
63.9(g).....| Additional CMS | Yes. |
| Notifications. | |
63.9(h)(1) through (h)(3).....| Notification of | Yes. |
| Compliance Status. | |
63.9(h)(4).....| | No.....| [Reserved].
63.9(h)(5) and (h)(6).....| Notification of | Yes. |
| Compliance Status. | |
63.9(i).....| Adjustment of Deadlines| Yes. |
63.9(j).....| Change in Previous | Yes. |
| Information. | |
63.10(a).....| Recordkeeping/Reporting| Yes | Yes.
63.10(b).....| General Requirements...| Yes. |
63.10(c)(1).....| Additional CMS | Yes.....| PS-8A applies.
| Recordkeeping. | |
63.10(c)(2) through (c)(4).....| | No.....| Reserved]
63.10(c)(5) through (c)(8).....| Additional CMS | Yes.....| PS-8A applies

instead
| Recordkeeping. | | of requirements

for
| | | THC CEM.
63.10(c)(9).....| | No.....| [Reserved]
63.10(c)(10) through (15).....| Additional CMS | Yes.....| PS-8A applies

instead
| Recordkeeping. | | of requirements

for
| | | THC CEM.
63.10(d)(1).....| General Reporting | Yes. |
| Requirements. | |
63.10(d)(2).....| Performance Test | Yes. |
| Results. | |
63.10(d)(3).....| Opacity or VE | Yes. |
| Observations. | |
63.10(d)(4).....| Progress Reports.....| Yes. |
63.10(d)(5).....| Startup, Shutdown, | Yes. |
| Malfunction Reports. | |
63.10(e)(1) and (e)(2).....| Additional CMS Reports.| Yes. |
63.10(e)(3).....| Excess Emissions and | Yes.....| Exceedences are

defined
| CMS Performance | | in subpart LLL.
| Reports. | |
63.10(f).....| Waiver for | Yes. |
| Recordkeeping/ | |
| Reporting. | |
63.11(a) and (b).....| Control Device | No.....| Flares not

applicable.
| Requirements. | |
63.12(a)-(c).....| State Authority and | Yes. |
| Delegations. | |
63.13(a)-(c).....| State/Regional | Yes. |
| Addresses. | |
63.14(a) and (b).....| Incorporation by | Yes. |
| Reference. | |
63.15(a) and (b).....| Availability of | Yes. |
| Information. | |

[64 FR 31898, June 14, 1999]

PART IV - STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD 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.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. Owner/Operator shall furnish to District, state or federal 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. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter 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

ALTERNATIVE OPERATING SCENARIO(S):

A. OFF PERMIT CHANGES

I. Permitee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
   A. Permitee 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
      1. The proposed change is not:
         a. Subject to any requirements under Title IV of the Federal Clean Air Act; or [See 1203(E)(1)(c)(i)d.]
         b. A modification under Title I of the Federal Clean Air Act; or
         c. A modification subject to Regulation XIII; and [See 1203(E)(1)(c)(i) d.]
         d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and [See 1203(E)(1)(c)(i)c.]
         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)(i)e.]

II. Procedure for "Off Permit" Changes
   A. If a proposed "Off Permit Change" qualifies under Part V, Section (B)(I)(A)(1) above, permitee shall implement the change as follows:
      1. Permitee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. [See 1203(E)(1)(c)(i)b.]
      2. In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:
         a. A notification that this application is also an application for an "Off Permit" Change pursuant to this condition; and [See 1203(E)(1)(c)(i)b.]
         b. A list of any new Applicable Requirements which would apply as a result of the change; and [See 1203(E)(1)(c)(i)b.]
         c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. [See 1203(E)(1)(c)(i)c.]
      3. Permitee shall forward a copy of the application and notification to USEPA upon submitting it to the District. [See 1203(E)(1)(c)(i)a.]
   B. Permitee 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)(i)a. and g.]
   C. Permitee 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)(i)f.]

D. Permitee 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)(i)f.]

III. 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)][Rule 1203(E)(1)(c)]

PART VI - CONVENTIONS, ABREVIATIONS, 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_2 Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of CO_2 Emissions

B. Other conventions:

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_2	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_3	ammonia
NMOC	non-methane organic compounds
NO_x	oxides of nitrogen
NO_2	nitrogen dioxide

O_2	oxygen
pH	pH (acidity measure of solution)
PM_{10}	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_x	oxides of sulfur
SO_2	sulfur dioxide
tpy	tons per year
TVP	true vapor pressure

APPENDIX A - NSPS SUBPARTS A, Y, AND OOO AND NESHAP SUBPARTS A AND LLL REQUIREMENTS

Table B-1: 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.

Table B-3: NSPS Subpart A, Y, and OOO Applicability		
Section	**Description**	**CEMEX Applicability**
NSPS Subpart A	**General Provisions (60.1--60.19)**	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
	§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

Table B-3: NSPS Subpart A, Y, and OOO Applicability		
Section	**Description**	**CEMEX Applicability**
§60.19	General notification and reporting requirements	Yes
NSPS Subpart Y	**Standards of Performance for Coal Preparation Plants (60.250--60.254)**	
§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
NSPS Subpart OOO	**STANDARDS OF PERFORMANCE FOR NONMETALLIC MINERAL PROCESSING PLANTS (60.670 – 60.676)**	
§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
	§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

Table B-4a: NESHAP Subpart LLL Requirements for Kiln Permit Nos. B001083 and B005362 - For compliance prior to September 9, 2015

1. §63.1343(b)(1) Limit PM emissions to 0.30 lb/ton

2. §63.1343(b)(3)(i) Limit D/F emissions to $8.7x10^{-11}$ grains (TEQ) per dscf of exhaust gases @ 7% O_2, or $1.7x10^{-10}$ grains (TEQ) per dscf of exhaust gases @ 7% O_2 for temperatures below 400 ^{O}F.

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 and opacity using EPA Method 5 for PM and Method 9 for opacity. 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. Maximum 6-minute average opacity during each of 3 PM tests.

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 5 years.

7. §63.1349(d) Repeat performance test for D/F every 30 months.

8. §63.1349(e) Repeat performance test for PM, opacity, 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(a) Prepare an operations and maintenance (O&M) plan.

11. §63.1350(c)(2) Perform daily opacity monitoring using EPA Method 9 for at least 30 minutes each day. Record the average opacity for each 6-minute period. To be in compliance, no 6-minute period can exceed 10%.

12. §63.1350(f)(1) through (f)(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).

13. §63.1350(f)(6) Calibrate thermocouples and/or temperature sensors every 3 months.

14. §63.1350(i) Perform annual inspection of the components of the combustion system.

15. §63.8(c) Follow requirements for CMS installation and identify out-of-control periods for temperature monitor.

Table B-4a: NESHAP Subpart LLL Requirements for Kiln Permit Nos. B001083 and B005362 - For compliance prior to September 9, 2015

16. §63.8(d) Develop a CMS QC program for temperature monitor.

17. §63.8(e) Conduct a CMS performance evaluation for the temperature monitor.

18. §63.1353(b)(2) & §63.9(e) Notify administrator of performance test and opacity observation at least 60 calendar days before scheduled test date.

19. §63.1353(b)(5) Notification of compliance status within 30 or 60 days after performance test completed.

20. §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.

21. §63.1354(b)(4) & §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.

22. §63.1354(b)(5) & §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.

23. §63.1354(b)(9) & §63.10(c) Submit semiannual summary report of gas temperature monitoring and recording device.

24. §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
- VE/opacity inspections
- Temperature monitoring data
- Thermocouple calibrations
- Temperature CMS records

Semiannual reports and other reports

Table B-4b: 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_2, or 0.4 ng/dscm (TEQ) of exhaust gases @ 7% O_2 for temperatures below 400 ^{O}F for existing units. Limit D/F emissions to 0.2 ng/dscm (TEQ) of exhaust gases @ 7% O_2, or 0.4 ng/dscm (TEQ) of exhaust gases @ 7% O_2 for temperatures below 400 ^{O}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.

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.

Table B-4b: NESHAP Subpart LLL Requirements for Kiln Permit Nos. B001083 and B005362 For compliance on and after September 9, 2015

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.

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

Table B-5a: NESHAP Subpart LLL Requirements for Clinker Cooler Permit Nos. B001083 and B005362 - For compliance prior to September 9, 2015

1. §63.1345(a)(1) Limit PM emissions to 0.10 lb/ton dry feed.

2. §63.1345(a)(2) Limit opacity to 10%.

3. §63.1349(b)(1) Conduct an initial performance test for PM and opacity using EPA Method 5 for PM and Method 9 for opacity. 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. Maximum 6-minute average opacity during each of 3 PM tests.

4. §63.1349(c) Repeat performance test for PM every 5 years.

5. §63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.

6. §63.1350(a) Prepare a written operations and maintenance (O&M) plan.

7. §63.1350(d)(2) Perform daily opacity monitoring using EPA Method 9 for at least 30 minutes each day. Record the average opacity for each 6-minute period. To be in compliance, no 6-minute period can exceed 10%.

8. §63.1353(b)(2) & §63.9(e) Notify administrator of performance test at least 60 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)(1)&(2), & §63.10(d)(2)&(3) Submit results of performance test and opacity observations within 60 days after completion of test.

11. §63.1354(b)(4) & §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. §63.1354(b)(5) & §63.10(d)(5)(ii) Notify within 2 working days 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

Table B-5a: NESHAP Subpart LLL Requirements for Clinker Cooler Permit Nos. B001083 and B005362 - For compliance on and after to September 9, 2015

1. §63.1345(a)(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. §63.1349(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. Maximum 6-minute average opacity during each of 3 PM tests.

3. §63.1349(c) Repeat performance test for PM every 12 months.

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. §63.1353(b)(2) & §63.9(e) Notify administrator of performance test at least 60 calendar days before scheduled test date.

7. §63.1353(b)(5) Notification of compliance status within 60 days after performance test completed.

8. §63.1354(b)(1) & §63.10(d)(2) Submit results of performance test within 60 days after completion of test.

9. §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.

10. §63.10(d)(5)(ii) Notify within 2 working days actions not consistent with SSM plan, followed by certified letter within 7 days.

11. §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
- Reports

Table B-6a: NESHAP Subpart LLL Requirements for Raw Mills and Finish Mills (Permit Nos. B000045, B000047, B000049, B000051, B000053, B001093, B005192, B000083, and B001084) – For compliance prior to September 9, 2015

1. §63.1347 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(a) Prepare a written operations and maintenance (O&M) plan.

6. §63.1350(e) Perform daily opacity monitoring using EPA Method 22 for six minutes.

7. §63.1350(e)(1) & (e)(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.

12. §63.1354(b)(4) & §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. §63.1354(b)(5) & §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

Table B-6b: NESHAP Subpart LLL Requirements for Raw Mills and Finish Mills (Permit Nos. B00045, B00047, B00049, B00051, B000053, 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.

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

Table B-7a: 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 prior to September 9, 2015

1. §63.1348 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(a) Prepare a written operations and maintenance (O&M) plan.

6. §63.1350(a)(4) Perform 1-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.

11. §63.1354(b)(4) & §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. §63.1354(b)(5) & §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

Table B-7b: 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.

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.

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

Table B-8: NESHAP Subpart LLL Applicability and Exceptions			
Section #	**Section Title**	**Applicability (yes/no)**	**Exceptions?**
§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	
§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	Yes, except	63.1349(b)(3)(v) and

Table B-8: NESHAP Subpart LLL Applicability and Exceptions			
Section #	**Section Title**	**Applicability (yes/no)**	**Exceptions?**
	Requirements		(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	
§63.1357	Temporary, Conditioned Exemption from Particulate Matter and Opacity Standards	Yes	
§63.1358	Delegation of Authority	Yes	

APPENDIX B - 40 CFR 64 CAM REQUIREMENTS

The following pollutant specific emission unit(s) (PSEU) are subject to the Compliance Assurance Monitoring (CAM) Rule in 40 CFR 64.

Table C-1: 40 CFR 64 CAM Applicability

Permit #	Permit Description	Pollutant
River Plant		
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Black Mountain Quarry Plant		
B000081	CRUSHER - SECONDARY LIMESTONE	PM
B001289	LIMESTONE RECLAIM SYSTEM	PM
B001666	LIMESTONE STACKING SYSTEM - STORAGE	PM

Permit conditions in this permit for the PSEU(s) listed above with regulatory citation 40 CFR 70.6(a)(3)(i) are included for the purpose of complying with 40 CFR 64. In addition, the Permittee shall meet the requirements, as applicable, of 40 CFR 64.7, 64.8, and 64.9. [40 CFR 64]

Table C-2: 40 CFR 64 CAM Requirements

40 CFR §64.4(a) The Permittee shall comply with the performance criteria listed in the table below for the PM emissions from the PSEUs listed in Table C-1.

POLLUTANT: PM	**INDICATOR NO. 1:** Visible Emissions Check/Stack Observations	**INDICATOR NO. 2:** Pressure Differential	**INDICATOR NO. 3:** Baghouse Inspection
APPLICABLE PSEUS:	B000081, B001666, B001289	B001666	B000081, B001666
GENERAL CRITERIA **MONITORING APPROACH USED TO MEASURE THE INDICATORS:**	Perform VE check or Method 22 for Visible Emissions in accordance with the procedure found in Permit 100005.	Pressure drop measured across the baghouse with a differential pressure gauge.	Visual assessment
Appropriate indicator range or the procedure for establishing the indicator range which provides a reasonable assurance of compliance:	20% opacity (based on a 3-min average), unless otherwise specified in Table 1 of CAM Plant	Indicator level is 10 in. w.c. unless otherwise noted in Table 1 of CAM Plant	Indicator ranges indicating proper operation based on manufacturer's specifications
PERFORMANCE CRITERIA Specifications for obtaining representative data:	Measurements are made at baghouse exhaust by trained observers	Monitoring points are located to provide a differential pressure reading across the baghouse compartment(s). Gauges have a minimum accuracy of +/- 2% of full span.	Measurements are made by trained observers
Verification procedures to confirm the operational status of the monitoring::	No monitoring equipment involved. Verification is by ongoing training of VE observers	See above	No monitoring equipment involved.
QA/QC Practices:	Method 22 testers must be certified.	Pressure gauges are calibrated in accordance with company maintenance procedures consistent with gauge manufacturer recommendations or with acceptable engineering practices.	Observers should be familiar with baghouse operations and manufacturer's specifications
Monitoring frequency:	See Table 1 of CAM Plant	See Table 1 of CAM Plant	See Table 1 of CAM Plant
Data collection procedures:	VE observation manually recorded in VE log by observer	Manually recorded in Maintenance Records.	Manually recorded in Maintenance Records.
Data averaging period:	Three (3) minutes unless otherwise noted in Table 1 of CAM Plant	See Table 1 of CAM Plant	See Table 1 of CAM Plant

40 CFR §64.4(b) Provide Justification for the proposed elements of the monitoring

INDICATORS AND THE MONITORING APPROACH:

- Visible emissions: Opacity was selected as the performance indicator because it is indicative of operation of the baghouse in a manner necessary to comply with the particulate emission standard. When the baghouse is operating properly, there should be less than or equal to the specified percentage of opacity from the exhaust. Any increase above that level opacity indicates reduced performance of a particulate control device (even though that device may still be below its mass emission rate limit); therefore, this modified method for observing visible emissions is a suitable performance indicator.
- For pressure drop, an increase in pressure drop can indicate that the cleaning cycle is not frequent enough, cleaning equipment may be damaged, or the bags are becoming blinded. A decrease in pressure drop indicates the possibility of holes, tears or missing bags. However, visible emissions are a much more sensitive indicator of reduced baghouse performance than pressure drop.
- Bags and/or baghouse suspension systems no longer meeting manufacturer's specifications may provide an indication of deteriorating baghouse performance.

RATIONALE AND JUSTIFICATION:

- When an opacity excursion occurs corrective action will be initiated, beginning with an evaluation of the occurrence to determine the action required to correct the situation. All excursions will be documented and reported in accordance with the Title V permit requirements. The VE indicator levels are based on permit requirements and MDAQMD Rule 401.
- Excursions, defined as any reading in excess of Permit 100005 requirements, triggers an inspection and corrective action. As the pressure drop consistently approaches the maximum indicator level, the bags are scheduled for replacement in accordance with company maintenance procedures consistent with bag manufacturer recommendations or with acceptable engineering practices. This indicator is also used to monitor for possible by-pass of the control device. Electrical, mechanical, and process variables for the baghouse device are evaluated and adjusted as needed to keep desired pressure drop below the maximum indicator level.
- When inspection results indicate a deviation of baghouses from manufacturer's specifications, corrective action will be initiated, beginning with an evaluation of the occurrence to determine the appropriate action required to correct the situation.

40 CFR §64.7(a) Conduct the monitoring required under this part upon issuance of a part 70 or 71 permit that includes such monitoring specified in the permit.

40 CFR §64.7(b) At all times maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

40 CFR §64.7(c) Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), conduct all monitoring in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

40 CFR §64.7(d)(1) Upon detecting an excursion or exceedance, restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

40 CFR §64.7(e) Notify the permitting authority and, if necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes, if a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data is identified, or the results of compliance or performance testing document a need to modify the existing indicator

ranges or designated conditions.

40 CFR §64.8(c) If a QIP is required, develop and implement a QIP as expeditiously as practicable and notify the permitting authority if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

40 CFR §64.9(a)(1) and (2) Submit monitoring reports to the permitting authority in accordance with 40 CFR §70.6(a)(3)(iii) and include:

- Summary information on the number, duration and cause of excursions or exceedances, as applicable, and the corrective actions taken
- Summary information on the number, duration and cause for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR §64.8.
- Upon completion of a QIP, include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

40 CFR §64.9(b)(1) Maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required, any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part.

APPENDIX C - SIP HISTORY AND STATUS FOR CITED RULES

Rules in the SIP for the MDAQMD

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)(21)(xv)(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
RC	53	Specific Air Contaminants	RC	MD 406, 02/20/1979 via Res. 94-03	G-73	6/6/1977	40 CFR 52.240(a)(1)&(d)(1)(i)	1/16/1981	46 FR 3883
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 4011
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 Reso 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)(i)	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 FR3886
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)(i)	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)(vi)	6/14/1978	43 FR 25684
RC	74	Vacuum Producing Devices or Systems	RC	Fed Reg Dec12/21/1994	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	55 FR 49281
MD	102	Definition of Terms			4/23/2018	8/17/2018	40 CFR 52.220(e)(520)(i)(A)(1)	7/2/2019	84 FR 31682
MD	102	Definition of Terms		8/26/2015	(SIP Sub)				
MD	103	Definition of District Boundaries	MD	6/28/1995	Current	8/10/1995	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)(i)	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	11/12/1992	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)(c)(v)(B)	10/11/1983	48 FR 46046
SC	108	Alternate Emission Control Plans	RC	None	4/6/1990	12/31/1990	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)(B)	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
SC	218	Stack Monitoring	RC	7/25/1977 via Res. 94-03	Bef 10/81	10/23/1981	40 CFR 52.220(c)(103)(xviii)(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)(xviii)(A)	7/6/1982	47 FR 29231
MD	219	Equipment Not Requiring a Written Permit	MD	1/28/2019	(SIP Sub)				
SC	220	Exemtion, Net Increase in Emissions	RC	11/25/1991 via Res. 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231

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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	7/31/1995	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	3/26/1990	40 CFR 52.220(c)(155)(iv)(B)	1/29/1985	50 FR 3906
MD	401	Visible Emissions	MD	8/26/2019	Sip Sub				
SC	403	Fugitive Dust		7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	403	Fugitive Dust	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
MD	403.1	Respirable Particulate Matter in SVPA	MD	11/25/1996	11/25/1996	3/3/1997	40 CFR 52.220(c)(224)(i)(C)(2)	8/13/2009	74 FR 40750
MD	403.2	Fugitive Dust Control for MDPA	MD	7/22/1996	(SIP Sub)	10/18/1996			
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)	10/4/1984	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 59489
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
SB	406	Specific Contaminants	SBC	2/20/1979	7/25/1977	11/4/1977	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	6/6/1977	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)(xviii)(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
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)(E)	10/19/1984	49 FR 41028
SC	431.2	Sulfur Content of Liquid Fuels	RC	See MD 431	Ref 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	Ref 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
SC	461	Gasoline Transfer and Dispensing	RC	1/22/2018	Ref 2/83	2/3/1983	40 CFR 52.220(c)(127)(vii)(E)	5/3/1984	49 FR 18829
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	5/25/1994	7/13/1994	40 CFR 52.220(c)(198)(i)(E)(1)	5/3/1995	60 FR 21702
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	(SIP Sub)	5/18/2018			
SC	462	Organic Liquid Loading	RC	1/22/2018	Ref 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	462	Organic Liquid Loading	MD	1/22/2018	5/24/1994	7/13/1994	40 CFR 52.220(c)(198)(i)(E)(1)	5/3/1995	60 FR 21702
MD	462	Organic Liquid Loading	MD	1/22/2018	(SIP Sub)	5/18/2018			
SC	463	Storage of Organic Liquids	RC	1/22/2018	Ref 10/84	10/19/1984	40 CFR 52.220(c)(156)(vii)(A)	1/15/1987	52 FR 1627
MD	463	Storage of Organic Liquids	MD	1/22/2018	11/2/1992	1/11/1993	40 CFR 52.220(c)(191)(i)(C)	5/3/1995	60 FR 21702
MD	463	Storage of Organic Liquids	MD	1/22/2018	(SIP Sub)	5/18/2018			
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 orSystems	RC	Rescinded & Fed. Reg. Dec 12/21/1994	Ref 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. Reg. 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	Ref 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)	9/8/1978	43 FR 40011
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	Ref 11/96	11/26/1996	40 CFR 52.220(c)(254)(i)(H)(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)(H)(1)	1/11/1999	64 FR 1517
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	SBC	2/20/1979	Current	5/23/1979	40 CFR 52.220(c)(51)(xxi)(A)	1/27/1981	46 FR 8471

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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 fro Hazardous Air Pollutants	MD	2/25/2019	Delegated				
SC	1101	Secondary Lead Smelter/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 VOC's from Components at Pipeline Transfer Stations	MD	10/26/1994	Current	11/30/1994	40 CFR 52.220(c)(207)(i)(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)(i)(C)(1)	2/5/1996	61 FR 4215
SC	1104	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	Marine & Pleasure Craft Coating Operations	MD	10/24/2016	Current	Aft 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	Elmsurfied Asphalt	RC	None	Bef 3/84	3/14/1984	40 CFR 52.220(c)(153)(vii)(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)	5/3/1984	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)(vii)(B)	1/7/1986	51 FR 600
SC	1113	Architectural Coatings	RC	4/23/2012	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	Current	2/6/2013	40 CFR 52.220(c)(428)(i)(C)(1)	1/3/2014	79 FR 365
MD	1114	Wood Products Coating Operations	MD	1/22/2018	Current	3/3/1997	40 CFR 52.220(c)(518)(i)(A)(1)	7/2/2019	84 FR 31682
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	MD	1/22/2018	Current	5/23/2018	40 CFR 52.220(c)(518)(i)(A)(2)	2/27/2020	85 FR 11812
MD	1116	Automative 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	9/28/2009	Current	7/20/2010	40 CFR 52.220(c)(381)(i)(H)(1)	3/1/2012	77 FR 12495
MD	1118	Aerospace Vehicle Parts & Products Coating Operations	MD	10/26/2015	Current	4/21/2016	40 CFR 52.220(c)(485)(i)(B)(1)	6/21/2017	82 FR 28240
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	RC	None	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	10/27/1983	40 CFR 52.220(c)(148)(vi)(B)	10/3/1984	49 FR 39057
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	BEF 4/84	4/19/1984	40 CFR 52.220(c)(154)(vii)(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		2/1/1980	4/2/1980	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)(vii)(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)(vii)(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)(vii)(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)(I)(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
MD	1160	Internal Combustion Engines	MD	1/22/2018	10/26/1994	11/30/1994	40 CFR 52.220(c)(207)(i)(D)(3)	11/1/1996	61 FR 56470
MD	1160	Internal Combustion Engines	MD	1/22/2018	(SIP Sub)	5/23/2018			
MD	1161	Portland Cement Kilns	MD	1/22/2018	3/25/2002	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

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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	Ref 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
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 FR66285
SC	1173	Fugitive Emissions of Volatile Organic Compounds	RC	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 Ref 5/91	??	40 CFR 52.220(c)(182)(8)(A)(1)	??	??
SC	1176	Sumps and Wastewater Separators	RC	None	Ref 12/1990	12/31/1990	40 CFR 52.220(c)(182)(i)(A)(1)	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	8/22/2016	(SIP Sub)	1/24/2017			
MD	1301	Definitions	MD	9/24/2001	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	9/24/2001	(SIP Sub)	12/14/2001			
MD	1302	Procedure	MD	8/22/2016	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	8/22/2016	(SIP Sub)	1/24/2017			
MD	1303	Requirements	MD	9/24/2001	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	9/24/2001	(SIP Sub)	12/14/2001			
MD	1304	Emissions Calculations	MD	9/24/2001	3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1304	Emissions Calculations	MD	9/24/2001	(SIP Sub)	12/14/2001			
MD	1305	Emissions Offsets	MD	8/28/2006	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	8/28/2006	(SIP Sub)	12/29/2006			
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		9/24/2001	(SIP Sub)	12/14/2001			
MD	1310	Federal Major Facilities and Federal Major Modifications		8/28/2006	(SIP Sub)	12/29/2006			
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 (Emissions 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	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	8/22/2016	(SIP Sub)	1/24/2017			
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 - SOCMI	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)(i)	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
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (Business Machines)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	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)(iv)	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

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MD	FND	Fed. Neg. Dec - Polymer Manufacturing SOCMI 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 SOCMI	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)(iv)	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)(iv)	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)(iv)	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)(iv)	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 Appr. A California (q)(2)	12/17/2001	66 FR 63503
MD	Title V	Program - Federal Operation Permits: Title V			Unknown		40 CFR 70 Appr. A California (q)(3)	10/15/2002	67 FR 63551
MD	MACT	MACT Delegation (Sections A, F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, AAAA, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH, IIII, JJJJ, KKKK, MMMM, NNNN, OOOO, PPPP, QQQQ, RRRR, SSSS, TTTT,UUUU, VVVV, WWWW, XXXX, YYYY, ZZZZ,AAAAA, BBBBB, CCCCC, DDDDD, EEEEE, FFFFF, GGGGG,HHHHH, IIIII, JJJJJ, KKKKK, LLLLL, MMMMM, NNNNN,PPPPP,QQQQQ, RRRRR, SSSSS,TTTTT,WWWWW,YYYYY, ZZZZZ, BBBBBB, CCCCCC, DDDDDD, EEEEEE, FFFFFF, GGGGGG, HHHHHH, IIIIII, JJJJJJ, LLLLLL, MMMMMM, NNNNNN, OOOOOO, PPPPPP, QQQQQQ, RRRRRR, SSSSSS, TTTTTT, VVVVVV, WWWWWW, XXXXXX, YYYYYY, ZZZZZZ, AAAAAAA, BBBBBBB, CCCCCCC, DDDDDDD, EEEEEEE	MD		Current				
MD	NESHAP	NESHAPS Delegation (Sections A, C, D, E and M)	SB		N/A				
MD	NSPS	NSPS Delegation (Sections A, D, Da, Db, Dc, E, Ea, Eb, Ec, F, G, H, I, J, Ja, K, Ka, Kb, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, GG, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, VVa, WW, AAA, BBB, DDD, FFF,GGG,GGGa, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, AAAA, CCCC, EEEE, IIII, JJJJ, KKKK)	MD		Current			4/30/2013	78 FR 25185
MD	FND	19 Source Category FNDs (including Oil & Gas)	MD	10/28/2019	(SIP Sub)	12/20/2019			