



***MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT***

Preliminary Determination/Decision – Statement of Basis

for a Significant Modification to

FOP Number 100005

for

CEMEX Construction Materials Pacific, LLC

Facility:

CEMEX River Plant and Mountain Quarry Plant

Document Date: August 5th, 2020

Submittal date to EPA/CARB for review: August 5th, 2020

EPA/CARB 45-day Commenting Period ends: September 15, 2020

Public Notice Posted: August 5th, 2020

Public Commenting Period ends September 5th, 2020

Permit Issue date: On or about September 15th, 2020

Permitting Engineer:

Guy Smith

14306 PARK AVENUE, VICTORVILLE, CALIFORNIA 92392

PHONE: (760) 245-1661 • FAX: (760) 245-2022 • EMAIL: PERMITTING@MDAQMD.CA.GOV

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A. Introduction

1. Application and Setting

CEMEX Construction Materials Pacific, LLC (CEMEX) owns and operates their River and Black Mountain Quarry plants in Victorville and Apple Valley, CA. They mine and process limestone to produce Portland Cement. The two plant locations share a common Title V permit as their connecting rail line makes them a contiguous facility.

The Mojave Desert Air Quality Management District (MDAQMD or District) received an application in November, 2019, proposing the following significant changes to their Federal Operating Permit (FOP):

- Authorize additional hours of operation for the two diesel-fueled air compressors described in District Permits B013522 and B013523 from 480 hours per year each to 8,760 hours per year each.
- Utilize Emission Reduction Credits (ERCs) to offset the increases in non-attainment air pollutants/precursors.

A copy of the application package can be viewed in Appendix A and the ERC documents can be viewed in Appendix B.

Pursuant to District Rule 1301 – *New Source Review Definitions*, CEMEX is an existing Major Facility for CO, SO_x, NO_x, VOC, and PM₁₀. The portion of the MDAQMD where the facility is located has the following pollutant attainment status:

Pollutant	State Attainment Status	Federal Attainment Status
Ozone	Non-Attainment	Non-Attainment
PM10	Non-Attainment	Non-Attainment
PM2.5	Unclassified	Unclassified/Attainment
SO ₂ *	Attainment*	Unclassified/Attainment*
CO	Attainment	Unclassified/Attainment
Pb	Attainment	Unclassified/Attainment
NO ₂ *	Attainment*	Unclassified/Attainment*
H ₂ S	Attainment	Unclassified/Attainment

* NOTE: SO_x/SO₂ is a precursor to PM₁₀ and both NO_x/NO₂ and Volatile Organic Compounds (VOCs) are precursors to Ozone, therefore SO_x, NO_x, and VOC are considered to be in Non-Attainment status.

Therefore, pursuant to District Rule 1303 – *New Source Review Requirements*, the proposed equipment is subject to both the BACT and Offset requirements for the Ozone Nonattainment Air Pollutant Precursors of NO_x and VOC as well as PM₁₀ and SO_x (a PM₁₀ precursor). The proposed modification does not constitute a New Source Review (NSR) Modification as defined under

District Rule 1301 as the proposed changes do not result in any Net Emissions Increase. This document serves as the preliminary decision for NSR purposes.

In addition, CEMEX is defined as a federal Major Facility pursuant to District Rule 1201 – *Federal Operating Permit Definitions*. The proposed modification classifies as a Significant Modification to CEMEX’s Federal Operating Permit (FOP). Pursuant to section (B)(2) of District Rule 1205 – *Modifications of Federal Operating Permits*, this document serves as the preliminary determination to issue CEMEX the modified FOP, inclusive of the proposed changes.

This preliminary decision/determination will be submitted to USEPA and CARB for review and comment on August 05, 2020. It will also be opened for public comment on or about the same day.

B. Analysis

1. Determination of Emissions

[District Rule 1302(C)(1)]

The original Title V Significant Modification Request to allow the operation of these two air compressors was submitted in April, 2019. At that time, the applicant had planned to purchase two identical engines rated at 250 bhp, built in 2014, and planned to be used for 460 hours each. All emissions calculations and ERC offsets were based on the data presented to the District at that time.

However, the engines that were actually purchased and delivered are newer, cleaner, and of a lower maximum brake horsepower (bhp) rating than the originally planned units. Additionally, the applicant has determined that the new engines will be used much more frequently than originally planned and has asked to have the allowed hours of operation to be increased from the planned 460 hours each per year to the maximum possible 8760 hours each per year.

For purposes of clarification, the engines that were originally planned and permitted for in early 2019 will herein be referred to as the planned engines and the engines that were actually purchased, being operated, and are the subject of this permitting action will herein be referred to as the purchased engines.

Figure 1: Comparison of emission rates for planned engines and purchased engines :

Planned Engine Maximum bhp Rating: 250 Purchased Engine Maximum bhp Rating: 187	NOx	VOC	CO*	SOx*	PM ₁₀
Planned Engines’ Emission Factors (g/bhp-hr)	0.298	00.142	2.61	0.0048	0.015
Purchased Engines’ Emission Factors (g/bhp-hr)	0.045	0.015	0.075	0.0052	0.0022
Purchased minus Planned Differential (g/bhp-hr)	-0.253	-0.127	-2.535	0.0004	-0.013
Percent Reduction in Emission Factor (%)	84.9	89.4	97.1	-8.3	86.7

* The District is in Attainment/Unclassified status for both CO and SO_x, however SO_x is a precursor to PM₁₀.

Emissions from the planned engines were completely offset in a prior Significant Modification to CEMEX’s Title V FOP in 2019 using the 2014 emission factors and an annual limit of 460 hours. Figure 2 shows the total amount of offsets used for that permitting action (both units combined):

Figure 2: Total emissions previously offset for planned engines at 480 hours per year:

Planned engines: 250 bhp at 460 hours/year	NO _x	VOC	SO _x	PM ₁₀
Emissions which were fully offset (lbs/year)	157.8	75.0	2.0	7.9

Using the USEPA certified Tier 4 emission factors for the two purchased units, the following emissions to atmosphere are calculated for 8760 hours per year (both units combined):

Figure 3: Total emissions needing to be offset for purchased engines at 8760 hours/year:

Purchased engines: 187 bhp at 8760 hours/year	NO _x	VOC	SO _x	PM ₁₀
Total Emissions needing to be offset (lbs/year)	325.0	108.3	41.9	14.4

By subtracting the previously offset emissions shown in Figure 2 from the increased emissions needing to be offset shown in Figure 3, the following net emissions need to be offset:

Figure 4: Emissions requiring offsets (all values listed are in Pounds per Year):

Planned engines at 460 hours/year vs Purchased engines at 8760 hours/year (Both engines combined)	NO _x	VOC	SO _x	PM ₁₀
Total Purchased Engine Emissions at 8760 hrs/year	325.0	108.3	41.9	14.4
(minus) Currently Offset Emissions at 460 hrs/year	157.8	75.0	2.0	7.9
(equals) Emissions Increases Requiring Offsets	167.2	33.3	39.9	6.5

*Note: This proposed permitting action will result in a decrease of more than 800 lbs of CO per year.

Pursuant to District Rule 1305(C), an offset ratio of 1.3:1 shall be applied to all NO_x and VOC emissions increases for facilities located within the Federal Ozone Nonattainment Area (FONA). CEMEX is located within the FONA, therefore the offset ratio applies to this permitting action. Figure 5 shows the total offsets required to be used after the FONA offset ratio has been applied:

Figure 5: Total of emissions offsets required (all values listed are in Pounds per Year):

	NO _x	VOC	SO _x	PM ₁₀
Emissions Increases Requiring Offsets (lbs/year)	167.2	33.3	39.9	6.5
(times) Offset Ratio required by District Rule 1305(C)	1.3	1.3	1.0	1.0
(equals) Total Emissions Offsets Required (lbs/year)	217.4	43.3	39.9	6.5

The applicant has requested to use ERCs to offset these emissions increases as detailed in Section B.2.b below.

2. Determination of Nonattainment NSR Requirements

a. Best Available Control Technology Evaluation

[District Rules 1302(C)(2)(a) and 1303(A)(3)]

District Rules 1302(C)(2)(a) and 1303(A)(3) require Best Available Control Technology (BACT) for each new or Modified Permit Unit at a Modified Facility that emits, or has the Potential to Emit, twenty five (25) tons per year or more of any Nonattainment Air Pollutant or its precursors. CEMEX has a facility PTE in excess of twenty five (25) tons per year for SO_x and the ozone Nonattainment Precursors of NO_x and VOC, and a facility PTE in excess of 15 tons for PM₁₀. Therefore, the proposed new and modified Permit Units must be equipped with BACT pursuant to District Rule 1303. BACT is defined as the most stringent emission limit or control technique which has been achieved in practice, for the class and category of each source (permit unit) [District Rule 1301].

The District has determined that BACT for portable diesel internal combustion engines of this class and category is meeting the Tier 4 emission standards set by the USEPA and the sole use of Ultra-Low Sulfur Diesel (ULSD) for fuel. As these two engines are certified by USEPA as meeting all Tier 4 final emission standards, they are deemed to meet BACT.

b. Offsets Evaluation

[District Rules 1302(C)(3) and 1303(B)(1)]

Offsets are required for any new or modified Facility which has the Potential to Emit a Regulated Air Pollutant in an amount greater than or equal to the thresholds for the Nonattainment Air Pollutants and their Precursors specified in District Rule 1303 (B)(1). The offset threshold is 25 tons per year for SO_x, NO_x and VOC, and 15 tons per year for PM₁₀.

CEMEX has the potential to emit in excess of those thresholds and, since the proposed permitting action results in emissions increase for SO_x, NO_x, VOC, and PM₁₀ as indicated in the Determination of Emissions section above, offsets are required for each of those pollutants.

The applicant has proposed to offset these emissions using Emission Reduction Credits (ERCs) obtained from the San Joaquin Valley Air Pollution Control District (SJVAPCD). These initial ERCs were created from the shutdown of Pilkington North America’s flat glass melting furnace located in Lathrop, CA, in 2014. All operating permits were subsequently canceled, including their Federal Operating Permit. SJVAPCD received a request to issue ERCs for the shutdown and the ERCs were issued on October 6, 2014 in the following amounts:

Figure 6: Initial ERCs generated in SJVAPCD from shutdown of Pilkington glass melting furnace

Pollutant	Quantity Issued (lbs)	SJVAPCD ERC Certificate #
NOx	440,443	N-1198-2
VOC	349	N-1198-1
SOx	179547	N-1198-5
PM10	101862	N-1198-4

Origin of ERCs: CEMEX purchased the following amounts of ERCs from the Pilkington shutdown for the proposed transfer:

Figure 7: CEMEX purchase of ERCs generated in SJVAPCD

Pollutant	Quantity Purchased (lbs)	From SJVAPCD ERC Certificate #	Quantity Transferred (lbs)	To MDAQMD ERC Certificate #
NOx	220	N-1543-2	220	0113
VOC	50	N-1539-1	50	0113
SOx	50	N-1541-5	50	0113
PM10	12	N-1545-4	12	0113

California Health and Safety Code Standards for Transferring Emission Reduction Credits: Pursuant to California Health and Safety Code 40709.6, the offset of emissions at a stationary source located in one air district with emissions reductions credited to a stationary source in another air district outside of the air basin is allowed if the following conditions are met:

1. The stationary source to which the emissions reductions are credited is located in an upwind district that is classified as being a worse non-attainment status than the downwind district, and
2. The stationary source at which there are emissions increase to be offset is located in a downwind District that is overwhelmingly impacted by emissions transported from the upwind district.

The use of Pilkington's ERCs at Cemex's Victorville facility satisfies both requirements.

Furthermore, the California Health and Safety Code 40709.6 stipulates that inter-district ERC transfers must be approved by a resolution adopted by the governing boards of both air districts or by the air pollution control officers, if such authority is delegated by the boards. The Air Pollution Control Officers of both SJVAPCD and MDAQMD have been delegated such authority by their respective governing boards.

Lastly, California Health and Safety Code 40709.6 requires the evaluation of the transaction to include factors such as the impact of the offsets on air quality, public health, and regional economy.

1. The transfer of the subject ERCs will result in a net air quality benefit for the San Joaquin Valley as the transfer of the aforementioned ERCs will prevent their use to offset emissions in the future, while the offset ratios required by MDAQMD New Source Review regulations will ensure that a greater amount of ERCs will be used than pollutants emitted. Pursuant to MDAQMD regulations, CEMEX will be required by District Rule 1305(C) to submit the NO_x and VOC ERCs at a ratio of 1.3 to 1, fully offsetting the potential emissions increase from its project.

2. The use of the SJVAPCD ERCs for the project will have a net benefit to public health as the transfer will result in a permanent reduction in the amount of ERC allowed to be generated in the SJVAPCD and, as the quantity of ERCs used in the MDAQMD will exceed the project's maximum potential emissions, the ERC transfer should result in a future public health benefit due to the 1.3 to 1 NO_x and VOC offset ratio within the District.

3. These ERCs allow continued operation of a successful business entity in the Mojave Desert and an employer of many residents of this region. The sustained jobs, capital investment, and ongoing operations associated with the project will have a positive impact on the regional economy while fully complying with all air quality regulatory requirements.

District Standards for Transfers of Emission Reduction Credits: Pursuant to MDAQMD Rule 1402(D)(2), CEMEX properly submitted all required paperwork and surrendered the existing (SJVAPCD) Certificates for the ERCs to be transferred. The ERC application fees for the transfer of the ERCs from SJVAPCD and for the subsequent usage and issuance of the remaining ERC balances required by MDAQMD Rule 302(C)(1)(e) were received in full by the District on or about July 16th, 2020.

Readjustments of Emissions Reduction Credits: Pursuant to MDAQMD Rule 1404(A)(3), ERCs must be readjusted to reflect Reasonably Available Control Technology (RACT) upon use. The District thoroughly reviewed USEPA's RACT/BACT/LAER Clearinghouse and found no RACT determinations pertaining to glass furnaces (only BACT determinations were found, which were no more stringent than those noted herein).

The following table summarizes the RACT status for this proposed ERC Transfer:

Figure 8: RACT Upon Use Determination:

Governing Rules and Regulations	NOx	VOC	SOx	PM ₁₀
Emission Factors used to Issue ERCs	2.9 lb/ton	.0019-.0027 lb/ton ¹	1.14-1.2 lb/ton ²	0.58-0.70 lb/ton ²
SJVAPCD Rule 4354 limit	2.9 lb/ton	0.10 lb/ton	1.2 lb/ton	0.70 lb/ton
MDAQMD Rule 1165 limit	4.0 lb/ton	0.10 lb/ton	Use of PUC Nat Gas	Not Regulated ³

¹Emission factors were obtained from source test results as they were lower than Rule limit.

²Used lowest of either source test data or Rule limit for each affected quarterly period.

³MDAQMD Rule 1165 does not regulate PM₁₀ emissions from glass melting furnaces, therefore Rule 404 – Particulate Matter Concentration, regulates the allowed limit. Based on a comparative source test result of 0.0044 gr/dscf, PM₁₀ emissions are below Rule 404’s limit of 0.0448 gr/dscf.

As can be seen above, the reductions are beyond those required by either District’s applicable Rules and Regulations and there are no governing MDAQMD Rules or Regulations which have been taken to public workshop that are more stringent; therefore, not additional RACT adjustment is required.

ERC Transfer Summary: CEMEX purchased, transferred, and will surrender/consume the following quantities of ERCs for this permitting action:

Figure 9: ERCs Purchased from SJVAPCD to be surrendered to fully offset increased emissions

Pollutant	Quantity Purchased (lbs)	From SJVAPCD ERC Certificate #	Quantity Transferred (lbs)	To MDAQMD ERC Certificate #	Quantity to be Surrendered (lbs)	ERC Surrender Date*
NOx	220	N-1543-2	220	0113	218	Upon Use
VOC	50	N-1539-1	50	0113	44	Upon Use
SOx	50	N-1541-5	50	0113	40	Upon Use
PM ₁₀	12	N-1545-4	12	0113	7	Upon Use

* The ERCs are to be surrendered upon approval of this Significant Modification request and prior to issuance of the revised FOP.

3. Determination of Requirements for Toxic Air Contaminants

[District Rules 1302(C)(5) and 1320]

Pursuant to District Rule 1320 – New Source Review for Toxic Air Contaminants, CEMEX is subject to both State and Federal Toxic New Source Review, as CEMEX is a modified facility with Emission Units that have the potential to emit a Toxic Air Contaminant, as well operating

Emissions Units which are subject to an Airborne Toxic Control Measure (State T-NSR). Pursuant to the requirements of District Rule 1320, an applicability analysis of state and federal air toxic regulations was conducted for the proposed equipment (State T-NSR and Federal T-NSR, respectively) as described below:

a. State T-NSR:

1. Section (E)(1)(b) of District Rule 1320 requires that if any ATCM applies to the proposed equipment, the requirements of that ATCM shall be added to the District permit. Both of the stationary diesel internal combustion engines are subject to 17 CCR 93116 - *Airborne Toxic Control Measure for Portable Compression Ignition Engines*. Appropriate permit conditions have been included to ensure compliance with this regulation.

2. Pursuant to District Rule 1320, section (E)(2), State T-NSR also requires an Emission Unit Prioritization Score. This section requires prioritization scores to be calculated utilizing 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 factors, and non-cancer chronic factors. The Emission Unit Prioritization Scores were calculated using CARB HARP v2.1.2 software, which is consistent with the 2016 *CAPCOA Facility Prioritization Guidelines* and were based on 8760 hours of operation and the certified emission rates of each engine. As the air compressors can be used at either the Mountain Quarry plant or the River plant, two sets of Emission Unit Prioritization Scores were calculated, one for each plant.

(A). River Plant. The River plant’s HARP Prioritization Score is based on a very health-conservative residential receptor distance of 110 meters – the closest the air compressor can get to the receptor, even though it will spend the vast majority of its operating time considerably farther away. All criteria and toxic air contaminant/hazardous air pollutant emission rates were calculated based on the maximum emissions of the proposed actual equipment.

	Cancer Priority	Chronic Noncancer Priority	Acute Noncancer Priority
<i>Emission Unit B013522</i>	2.23	0.003	0.000
<i>Emission Unit B013523</i>	2.23	0.003	0.000
Total Emission Unit Prioritization Score	4.46	0.006	0.000

As shown in the table above, the total Emission Unit Prioritization Scores for the proposed new and modified Emission Units are more than 1.0 but less than 10.0. Therefore, they are categorized as “Medium Priority.” Pursuant to District Rule 1320, section (E)(2)(b), no further State T-NSR action is required. Please note that these Unit Prioritization Scores are

very health conservative as the units will spend the vast majority of their operating time considerably farther than 110 meters from the nearest receptor.

(B) Mountain Quarry Plant. The Mountain Quarry plant’s HARP Prioritization Score is based on a residential receptor distance of 5638 meters. All criteria and toxic air contaminant/ hazardous air pollutant emission rates were calculated based on the maximum emissions of the proposed actual equipment.

	Cancer Priority	Chronic Noncancer Priority	Acute Noncancer Priority
<i>Emission Unit B013522</i>	0.009	0.000013	0.000
<i>Emission Unit B013523</i>	0.009	0.000013	0.000
Total Emission Unit Prioritization Score	0.018	0.00003	0.000

As shown in the table above, the total Emission Unit Prioritization Scores for the proposed new and modified Emission Units are less than 1.0. Therefore, they are categorized as “Low Priority.” Pursuant to District Rule 1320, section (E)(2)(b), no further State T-NSR action is required.

A detailed HARP Prioritization Score breakdown is presented in Appendix C.

b. Federal T-NSR:

Pursuant to section (F)(1) of District Rule 1320, the Modified Facility/Emissions Units were analyzed to determine if any current, enforceable Maximum Achievable Control Technology (MACT) standards apply to the equipment affected by this permitting action, and if so to ensure that those requirements are enforced by permit condition. These portable diesel engines are governed by any MACT standard, therefore no further Federal T-NSR analysis is required.

4. Determination of Requirements for Control of Toxic Air Contaminants from Existing Sources
[District Rule 1520]

District Rule 1520 – *Control of Toxic Air Contaminants from Existing Sources* applies to CEMEX, as they are an existing facility that has a facility PTE greater than ten (10) tons per year for VOC, PM, and NO_x, as well as the potential to emit a TAC (Section (B)(1)(a) and (c)). CEMEX’s most recently approved (2018 emission year) Comprehensive Emission Inventory Report (CEIR) was utilized to fulfill the requirements of section (D)(1)(b)(i) of District Rule 1520. Section (E)(1)(a)(ii) requires prioritization scores to be calculated utilizing 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 factors, and non-cancer chronic factors. Using HARP v2.1.2, the following facility wide Prioritization Scores were obtained for both facilities:

	Cancer Priority	Chronic Noncancer Priority	Acute Noncancer Priority
<i>River Plant, before modification</i>	10.246	0.175	0.000
<i>Increase due to modification</i>	4.46	0.006	0.000
Final River Plant Facility-wide Prioritization Score	14.706	0.181	0.000

	Cancer Priority	Chronic Noncancer Priority	Acute Noncancer Priority
<i>Mountain Quarry Plant, before modification</i>	1.251	0.131	0.000
<i>Increase due to modification</i>	0.018	0.00003	0.000
Final Quarry Plant Facility-wide Prioritization Score	1.269	0.131	0.000

CEMEX was required to conduct a full Health Risk Assessment (HRA) for their River Plant due to a high HARP Prioritization Score based on the emissions generated in calendar year 2016. The results of that HRA indicate that toxic air pollutants (primarily Hexavalent Chrome and Arsenic) from the CEMEX – River Plant may increase cancer and non-cancer acute and chronic health risks as indicated below:

Maximum cancer risk - Estimated probability (chances per million) of a maximally exposed individual contracting cancer as a result of exposure to the CEMEX – River Plant 2016 emissions were calculated at:

- 28 chances per million for the maximally exposed worker (25 years of exposure); and
- 64 chances per million for the maximally exposed resident (30 years of exposure).

Acute non-cancer health risk – Estimated short-term concentration levels at which non-cancer acute health impacts could begin to occur. Acute health risks are typically based on a maximum 1-hour exposure duration.

- About 5.19 times higher for a resident and about 7.52 times higher for a worker.

Chronic non-cancer health risk – Estimated long-term concentration levels at which non-cancer chronic health impacts could begin to occur. Chronic health risks are typically based on an average annual exposure duration.

- About 1.32 times higher for a resident and about 5.79 times higher for a worker.

The results of the HRA, indicated above, categorizes CEMEX- River Plant as a Significant Health Risk, specifically, the HRA indicates that the maximum individual cancer risk (MICR) is greater than or equal to ten (10) in a million (1×10^{-5}) and/or the Hazard Index (HI) is greater than or equal to one (1). A Facility categorized as having a Significant Health Risk must conduct a Toxic "Hot Spots" Public Notification pursuant to section (F) of District Rule 1520 and California Health and Safety Code, Section 44362. As of July, 2020 the Public Notification Process is pending and is expected to be released by September of 2020. Please note that while this HRA is based on 2016 emissions, the HRA development and review process can span a minimum of two years due to the timelines specified by rule for the District and OEHHA to review.

Due to the low and medium Emission Unit prioritization scores based on maximum potential to emit emissions for the purchased engines, and the expected actual distances to receptors being well in excess of the 110 meters used to calculate the prioritization scores for the River plant, the addition of these engines is not expected to have a significant effect on the facility's HRA results. The purchased engines, in addition to the CEMEX facility (both the Quarry and River plants) will be reassessed as part of the District's Emission Inventory and Hot Spot Programs on an annual basis to ensure that the criteria and toxic emissions are routinely evaluated and public notification is implemented as applicable.

5. Determination of Requirements for Prevention of Significant Deterioration and National Ambient Air Quality Standards

[District Rule 1302(C)(6) and 1302(D)(5)(b)(iv)]

a. PSD Analysis

In accordance with the applicability procedures of 40 CFR 52.21 (a)(2)(i) and (ii), PSD applies to "any new major stationary source or the major modification of any existing major stationary source". The PSD Major Source Significant Emission Rates (SERs) discussed in 40 CFR 51.166(b)(23) compared to the proposed modification's Emission Rates are:

Criteria Pollutant	Major Source Modification SER (tpy)	Proposed Modification Emission Rate (tpy)
CO	100	-0.45
NOx	40	0.08
SO2	40	0.02
Ozone (as VOC)	40	0.017
Ozone (as NOx)	40	0.08
PM	25	0.003
PM10 (includes condensable emissions)	15	0.003
PM2.5 (includes condensable emissions)	10	0.003
Pb	0.6	0

Furthermore, please note that the SERs noted in 40 CFR 51.166(b)(23) refer to *net* emissions increases whereas the above proposed modification SERs are *total* (i.e. pre-offset) emissions and not net emissions, as all emissions are being offset to zero.

The proposed modification does not result in a new major stationary source and does not constitute a major modification. The project is not subject to PSD.

b. NAAQS Impact Analysis

District Rule 1302, section (D)(5)(b)(iv), requires that any new or Modified Facility located in an area classified by USEPA as attainment or unclassifiable shall determine if the Facility will cause or contribute to a violation of the National Ambient Air Quality Standards (NAAQS). The proposed modifications discussed herein do not cause a net increase in emissions; therefore, the proposed project will not contribute to a violation of the NAAQS.

6. Rules and Regulations Applicable to the Proposed Project

District Rules

Rule 201/203 – *Permits to Construct/Permit to Operate*. Any equipment which may cause the issuance of air contaminants must obtain authorization for such construction from the Air Pollution Control Officer. CEMEX is in compliance with this rule as they appropriately applied for a District permit for all new equipment and maintains District permits for all residing equipment.

Rule 204 – *Permit Conditions*. To assure compliance with all applicable regulations, the Air Pollution Control Officer (Executive Director) may impose written conditions on any permit. The District has imposed permit conditions to ensure CEMEX complies with all applicable regulations.

Rule 206 – *Posting of Permit to Operate*. Equipment shall not operate unless the entire permit is affixed upon the equipment or kept at a location for which it is issued and will be made available to the District upon request.

Rule 207 – *Altering or Falsifying of Permit*. A person shall not willfully deface, alter, forge, or falsify any issued permit.

Rule 209 – *Transfer and Voiding of Permits*. CEMEX shall not transfer, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another. When equipment which has been granted a permit is altered, changes location, or no longer will be operated, the permit shall become void.

Rule 210 – *Applications*. CEMEX provided all the required information to correctly address the proposed equipment pursuant to this rule, although there were instances in which additional information were required, in which the thirty (30) day clock was restarted.

Rule 212 – *Standards for Approving Permits*. This rule establishes baseline criteria for approving permits by the District for certain projects. In accordance with these criteria, the proposed

modifications and application does not cause issuance of air contaminants in violation of Sections 41700 or 41701 of the State Health and Safety code.

Rule 221 – *Federal Operating Permit Requirement*. CEMEX is in compliance with this rule, as they currently hold and maintain a Federal Operating Permit.

Rule 301 – *Permit Fees*. The proposed equipment will decrease CEMEX’s annual permit fees by the applicable amounts described in section (E) of this rule.

Rule 401 – *Visible Emissions*. This rule limits visible emissions opacity to less than 20 percent (or Ringelmann No. 1). In normal operating mode, visible emissions are not expected to exceed 20 percent opacity.

Rule 402 – *Nuisance*. This rule prohibits facility emissions that cause a public nuisance. The proposed modifications and associated equipment is required by permit condition to employ good engineering and operational principles in order to minimize emissions and the possibility of a nuisance.

Rule 403 – *Fugitive Emissions*. This rule prohibits facilities from causing or allowing fugitive emissions to cross property boundaries, causing or allowing particulate matter to exceed 100 micrograms per cubic meter as the difference between upwind and downwind samples taken at the property line for a minimum of five hours, and requires facilities to take reasonable precautions to minimize emissions from grading, excavating, etc., and to minimize dust trackout onto public roadways. The proposed modification as described is not expected to produce any visible emissions at any time and is therefore not expected to violate Rule 403.

Rule 408 – *Circumvention*. This rule prohibits hidden or secondary rule violations. The proposed modifications as described is not expected to violate Rule 408.

Rule 430 – *Breakdown Provisions*. Any Breakdown which results in a violation to any rule or regulation as defined by Rule 430 shall be properly addressed pursuant to this rule.

Rule 900 – *Standards of Performance for New Stationary Sources (NSPS)*. Rule 900 adopts all applicable provisions regarding standards of performance for new stationary sources as set forth in 40 CFR 60. There are no NSPSs applicable to the proposed permitting action.

Regulation X – *National Emission Standards for Hazardous Air Pollutants*. Pursuant to Regulation X, CEMEX is required to comply with all applicable ATCMs. There are permit conditions assigned to ensure compliance with the Portable Compression Ignition Engine ATCM (17 CCR 93116) requirements triggered by this permitting action. Please note that these same requirements were included in the previous permitting action.

Rule 1161 – *Portland Cement Kilns*. Rule 1161 limits the emissions of NO_x from existing Portland cement kilns. CEMEX has an existing Portland cement kiln and is currently compliant with the NO_x limit of Rule 1161.

Regulation XII – *Title V Permits*. This regulation contains requirements for sources which must have a FOP. CEMEX currently has a FOP and is expected to comply with all applicable rules and regulations.

Rule 1201 – *Federal Operating Permit Definitions*. CEMEX is defined as a federal Major Facility pursuant to this rule.

Rule 1203 – *Federal Operating Permits*. This document represents the preliminary determination for the proposed modifications to CEMEX’s FOP. This proposed Significant Modification will also be properly noticed pursuant to District Rule 1207, as required.

Rule 1205 – *Modifications of Federal Operating Permits*. The proposed equipment classifies as a Significant Modification to CEMEX’s Federal Operating Permit (FOP), and subsequently, this permit modification is issued in accordance with the provisions of District Rule 1203.

Rule 1208 – *Certification*. CEMEX included a Certification of Responsible Official as required with the submitted application for the proposed equipment.

Rule 1211 – *Greenhouse Gas Provisions of Federal Operating Permits*. CEMEX is a Major GHG Facility pursuant to Rule 1211. CEMEX’s FOP includes all the requirements of this rule.

Regulation XIII – *New Source Review*

Rule 1302 – *Procedure*. This rule applies to all new or Modified Facilities and requires certain requirements to be fulfilled when submitting an application. All applicable requirements of this rule are discussed in this NSR document as part of the Analysis procedure. Certification of compliance with the Federal Clean Air Act, applicable implementation plans, and all applicable District rules and regulations have been addressed. The Authority to Construct (ATC) application package for the proposed equipment includes sufficient documentation to comply with Rule 1302(D)(5)(b)(ii). Permit conditions for the proposed project will require compliance with Rule 1302(D)(5)(b)(iii).

Rule 1303 – *Requirements*. This rule requires BACT and offsets for selected facility modifications. Equipment installed shall meet BACT and prior to the commencement of construction the proponent shall have obtained sufficient offsets to comply with Rule 1303(B)(1). The proposed permitting action triggers BACT and offsets as discussed in Sections 2.a and 2.b above.

Rule 1304 – *Emissions Calculations*. The Proposed Emissions from the proposed modifications were calculated pursuant to section (B)(1)(a) of this rule.

Rule 1320 – *New Source Review for Toxic Air Contaminants*. Pursuant to the requirements of District Rule 1302, an applicability analysis of state and federal air toxic regulations was conducted for the proposed modifications (State T-NSR and Federal T-NSR, respectively) and is discussed in further detail in section (B)(3) of this document.

Rule 1520 – *Control of Toxic Air Contaminants from Existing Sources*. The proposed project is subject to Rule 1520, as CEMEX has a facility PTE greater than ten (10) tons per year for VOC, PM, and NO_x, as well as a PTE to emit a TAC (Section (B)(1)(a) and (c)). A Toxic ‘Hot Spots’ Program Analysis was conducted pursuant to section (E) of District Rule 1520. Facility Prioritization Scores were calculated pursuant to this rule and the results of the analysis is discussed in further detail in section (B)(4), above.

Regulation XVII – *Prevention of Significant Deterioration*. The purpose of this regulation is to set for requirements for all new Major PSD Facilities and Major PSD Modifications which emit or have the potential to emit a PSD Air Pollutant pursuant to the requirements of 40 CFR 52.21. The proposed modification does not constitute a new Major PSD Facility or a Major PSD Modification; therefore, PSD does apply to the proposed project.

State Regulations

17 CCR 93116 – *Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater* applies to the proposed permitting action. Existing permit conditions have been issued to ensure compliance with this ATCM.

Federal Regulations

40 CFR 60, Subpart A – *NSPS General Provisions*. CEMEX complies with this regulation per Appendix B of their FOP.

40 CFR 60, Subpart Y – *NSPS for Coal Preparation Plants and Processing Plants*. CEMEX complies with this regulation per Appendix B of their FOP.

40 CFR 60, Subpart OOO – *NSPS for Nonmetallic Mineral Processing Plants*. CEMEX complies with this regulation per Appendix B of their FOP.

40 CFR 60, Subpart IIII – *NSPS for Stationary Compression Ignition Internal Combustion Engines*. CEMEX complies with this regulation per Appendix B for non-emergency engines of their FOP.

40 CFR 61, Subpart M – *NESHAP for Asbestos*. CEMEX complies with 40 CFR 61, Subpart M – *NESHAP for Asbestos* per conditions in Part II of their FOP.

40 CFR 63, Subpart A – *NESHAP General Provisions*. CEMEX complies with this regulation per Appendix B of their FOP.

40 CFR 63, Subpart LLL – *NESHAP for the Portland Cement Industry*. CEMEX complies with this regulation per Appendix B of their FOP

40 CFR 63, Subpart ZZZZ – *NESHAP for Stationary Reciprocating Internal Combustion Engines*. CEMEX complies with this regulation per Section III of their FOP.

40 CFR 64, *Compliance Assurance Monitoring*. The Compliance Assurance Monitoring (CAM) Rule (40 CFR 64) applies to each Pollutant Specific Emissions Unit (PSEU) when it is located at a Major Facility that is required to obtain Title V, Part 70 or 71 permit and it meets all of the following criteria. “PSEU” means an emissions unit considered separately with respect to each regulated air pollutant.

The PSEU must:

- a. Be subject to an emission limitation or standard [40 CFR 64; AND,
- b. Use a control device to achieve compliance [40 CFR 64.2(a)(2)]; AND,
- c. Have the **potential pre-control** emissions that exceed or are equivalent to the major source threshold. [40 CFR 64.2(a)(3)]

The CEMEX facility currently has three PSEU applicable to CAM, however the two engines described in this permitting action do not have potential pre-control emissions equal to or greater than the major source thresholds and are not regulated under 40 CFR 64. Please refer to the CAM Plan found in Appendix C to the facility’s Title V FOP for the emission units that are regulated by the CAM Rule.

40 CFR 82, *Protection of Stratospheric Ozone*. CEMEX complies with this regulation per Section II of their FOP.

40 CFR 98, *Mandatory Greenhouse Gas Reporting*. CEMEX complies with this regulation per Section II of their FOP.

7. NSR Preliminary Decision - Conclusion

The District has reviewed the proposed modifications and application for CEMEX and conducted a succinct written analysis as required by District Rule 1302, section (D)(1)(b) and District Rule 1203, section (B)(1)(a). The District has determined that the proposed modifications and application are in compliance with all applicable District, state, and federal rules and regulations as proposed and when operated in terms of the permit conditions of the associated, revised FOP.

C. Title V Permit/FOP – Significant Permit Modification

1. Proposed Changes to FOP

The proposed changes to the FOP are indicated in the draft FOP dated August 30, 2020.

2. CAM Analysis

The Compliance Assurance Monitoring (CAM) rule (40 CFR 64) applies to each Pollutant Specific Emissions Unit (PSEU) when it is located at a Major Facility that is required to obtain Title V, Part 70 or 71 permit and it meets all of the following criteria. “PSEU” means an emissions unit considered separately with respect to each regulated air pollutant.

The PSEU must:

- a. Be subject to an emission limitation or standard; AND,
- b. Use a control device to achieve compliance; AND,
- c. Have the **potential pre-control** emissions that exceed or are equivalent to the major source threshold.

The CEMEX facility currently has three PSEU applicable to CAM, however the proposed modification does not trigger new CAM requirements. Please refer to the CAM PSEU Emission Unit Evaluation detailed in Section B.6 above.

3. Title V/FOP Preliminary Determination – Conclusion

The District has reviewed the applications and proposed modifications to CEMEX’s Federal Operating Permit. The District has determined that the proposed modification complies with all applicable District, state, and federal rules and regulations as proposed and when operated within the terms of the permit conditions given herein, and the attached revised FOP, which is in Appendix D.

This preliminary determination will be submitted to USEPA, CARB, and the public for review and comment on or about August 05, 2020. The public notice for this preliminary determination will be published on or about August 05, 2020 allowing for public comment until September 05, 2020 or thirty days after publication, whichever is later.

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Appendix A:
Application Package



October 14, 2019

Mr. Sam Oktay
Mojave Desert Air Quality Management District (MDAQMD)
14306 Park Avenue
Victorville, CA 92392-2310
soktay@mdaqmd.ca.gov

via e-mail

**Subject: CEMEX Construction Material Pacific, LLC – Victorville Facility
Black Mountain Quarry Plant and River Plant
Significant Title V Modification, TV Permit 100005
Modification to ATC Permits: B013522 and B013523
Requesting Additional Operating Hours of Two Portable Compressor Engines**

Dear Mr. Oktay:


CEMEX Construction Material Pacific, LLC (CEMEX), is submitting the enclosed amendment application to the Authority to Construct Permits B013522 and B013523, for the CEMEX - Black Mountain Quarry Plant (Apple Valley) and the River Plant (Victorville) facilities both located in San Bernardino County, California.

The purpose of this amendment application is to authorize additional operating hours for two diesel-fired portable compressor engines. The increase in authorized operating hours requires the purchase and use of Emission Reduction Credits (ERCs) for applicable non-attainment pollutant increases. CEMEX will obtain the required ERC's as represented in this application, Attachment C, identifies the supplier for the credits. Cemex is requesting the District's approval of the credits before CEMEX proceeds with the purchase. Purchase of ERC will be conducted once the District gives approval.

Enclosed with the Permit Application is detailed information of the emission data for each piece of equipment, the emission offset requirements, General Application Forms, and a revised Title V - Permit Amendment/Modification Form (Form 1202-N).

If you have any questions or require additional information, please do not hesitate to contact me by email at alejandrav.silva@cemex.com or by phone at (760) 381-7649.

Sincerely,


Alejandra V Silva
Environmental Manager

Enclosures

c: Ms. Anna de la Garza (POWER Engineers, Inc.) via email
Ms. Darlene Marie Bray, Director - Environmental, CEMEX USA (via e-mail)

Victorville Plant

16888 North E Street, Victorville, CA 92394-2999, Phone (760) 381-7600, Fax (760) 245-0191

September 2019

AUTHORITY TO CONSTRUCT PERMIT AMENDMENT APPLICATION

CEMEX USA
CEMEX Construction Material Pacific, LLC
CEMEX – Black Mountain Quarry Plant and River Plant
San Bernardino County, California



Submitted To:
Mojave Desert Air Quality Management District
14306 Park Avenue
Victorville, California 92392-2310

PROJECT NUMBER:
157417



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1.0 INTRODUCTION

1.1 Project Overview

CEMEX Construction Material Pacific, LLC (CEMEX) owns and operates CEMEX - Black Mountain Quarry Plant (Apple Valley) and River Plant (Victorville) both located in San Bernardino County, California. The Apple Valley site is a cement plant that consists of two kilns (Kiln Q2 and Kiln Q3) and associated clinker coolers and activated carbon injection (ACI) system for Kiln Q3. The River Plant site is a plant that consists of cement grinding and finishing operations only.

The purpose of this submittal is to request amendments to two Authority to Construct Permits, B013522 and B013523, for two portable compressor engines. The two diesel-fired portable compressor engines are currently each authorized for 480 hours of annual operation. The purpose of this amendment application is to request authorization of 5,000 total hours of annual operation for each engine.

This Authority to Construct Permit Amendment Application includes documentation as requested by the Mojave Desert Air Quality Management District (MDAQMD).

Per Rule 1303(B), the annual increase in emissions for these two sources requires the use of Emission Reduction Credits (ERCs) for applicable pollutants. This application includes calculations to demonstrate the required emissions offsets. CEMEX will obtain the required ERC's and apply them to this action as required by MDAQMD.

A Title V - Permit Amendment/Modification Form (Form 1202-N) will be submitted to MDAQMD under a separate cover letter.

San Bernardino County is currently classified as nonattainment for ozone, particulate matter with an aerodynamic diameter less than 10 microns (PM₁₀), and particulate matter with an aerodynamic diameter less than 2.5 microns (PM_{2.5}). Victorville is a minor source under the Prevention of Significant Deterioration (PSD) program and a major source under the Federal Operating Permits program (Title V) program.

2.0 EQUIPMENT AND SITE PROCESS INFORMATION

2.1 Equipment Description and Operating Schedule

Each portable compressor engine (COMP1 and COMP2) is a 250 horsepower (hp) John Deere, model number 6068, and are used throughout the site as an extra power source for operations. COMP1 and COMP2 are prime, portable engines and each engine is expected to operate no more than 5,000 hours per year. These engines will operate 52 weeks out of the year depending on the site's operational needs.

2.2 Process Description

Each portable compressor engine, COMP1 and COMP2, will be fueled with diesel fuel and they will be moved to various locations at each site and provide additional power to different operation equipment depending on the operational needs of the facility. COMP1 and COMP2 will emit nitrogen oxides (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), PM_{2.5}, PM₁₀, sulfur dioxide (SO₂), formaldehyde, benzene, and other hazardous air pollutants (HAPs). Total emissions from both COMP1 and COMP2 are expected to be less than 9 tons per year (tpy) or 4.5 tpy each.

2.3 Process Weight and Fuels Burned

Each portable compressor engine has a fuel consumption rate of 1,498,000 British thermal units per hour (Btu/hr). COMP1 and COMP2 are diesel-fired engines and burn 10.7 gallons of fuel per hour.

2.4 Best Available Control Technology (BACT)

Per Rule 1303(A) BACT is required for any Modified Permit Unit which emits, or has the Potential to Emit, 25 pounds per day or more of any Nonattainment Air Pollutant. Per the attached calculations in Appendix A, the compressor engines COMP1 and COMP2 do not have the potential to exceed 25 lbs per day of any Nonattainment Air Pollutant.

3.0 EMISSIONS DATA

3.1 Emission Sources

This section provides the calculation methodology used to estimate emissions from the proposed project. Hourly emissions were calculated using an emission factor either provided by the manufacturer or obtained from the EPA's AP-42 Chapter 3 Guidance. Annual emissions were calculated based on the expected annual hours of operation for each of the engines. Detailed emission calculations are included in Appendix A.

3.2 Offsets Evaluation

The site-wide emissions, including the potential emissions from the two portable compressor engines are above the offset threshold amounts as per Rule 1303(B); therefore, offsets are required for this project for increases associated with non-attainment pollutants and their pre-cursors as listed in Rule 1303(B). CEMEX is a VOC major source; therefore, all new VOC emissions must be offset. The number of offsets needed for the applicable pollutant emissions produced by the engines was calculated based on the potential tons per year of each pollutant. Detailed calculations are included in Appendix A and summarized below.

Pound per Year Estimated Total Emissions for Applicable Pollutants

EPN	NO _x	VOC	PM ₁₀	SO _x
COMP 1	822	391	42	11
COMP 2	822	391	42	11
Total *	1,766	785	88	21
Total ERCs Required (1.3:1)	2,296	1,020	114	27

*The initial authorization project also included an emergency fire pump that required ERC's. See Appendix A for more details.

For the initial permit applications for these sources, ERCs were purchased from Sierra Power Corporation and transferred to CEMEX to offset the applicable annual pollutant emissions produced by the engines. The ERCs were transferred from San Joaquin Valley Air Pollution Control District (SJVAPCD) to MDAQMD. A copy of the ERC transfer package was included in the initial submittal to the agency. The following ERCs were transferred to CEMEX from Sierra Power Corporation:

- 23 pounds PM₁₀;
- 878 pounds NO_x, and;
- 4 pounds SO_x.

CEMEX is in the process of purchasing the remaining ERCs for this amendment application and will provide record of the purchase to the agency. Note that no VOC ERCs were purchased from Sierra Power Corporation, NO_x ERC's were used at the time to offset the VOC increases associated with the initial applications.

NO_x, PM₁₀, and SO_x ERCs will be applied at an offset ratio of 1.3 to 1.0 for project annual emissions as required by Rule 1305(C). An additional 2:1 offset ratio will be applied to the NO_x ERCs to account for the VOC project annual emissions if CEMEX chooses to use NO_x ERCs for VOC emissions. CEMEX may also purchase VOC ERCs. If so, an offset ratio of 1.3 to 1.0 for project annual emissions as required by Rule 1305(C).

Pound per Year Estimated ERC's Required for this Amendment

EPN	NO_x	VOC	PM₁₀	SO_x
Total ERCs Required (1.3:1)	2,296	1,020	114	27
ERC's previously purchased	878	0	23	4
Total ERCs Required to be purchased	1,418	1,020	91	23

4.0 SITE LOCATION

Apple Valley is in San Bernardino County, approximately 11 miles northeast of Bell Mountain, California.

Address: 25220 Black Mountain Quarry Road, Apple Valley, California 92307

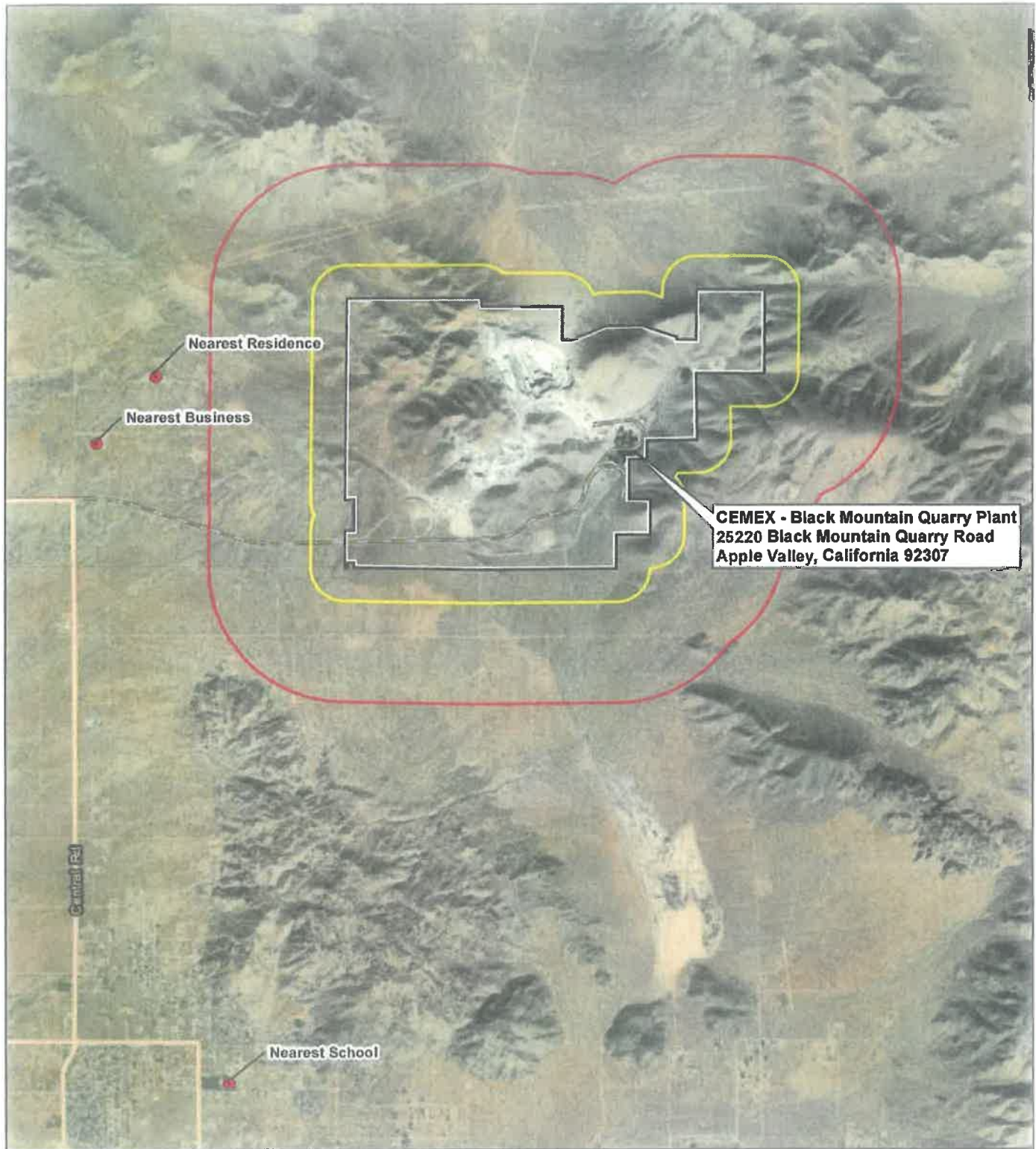
4.1 Receptors

Sycamore Rocks Elementary School is the nearest school to the Apple Valley site and is approximately 29,637 feet away. The closest business is approximately 20,660 feet away and closest residence is approximately 18,500 feet away (see attached area map).

4.2 Scaled Area Map

A scaled area map that shows the location of the Apple Valley site and the nearest receptors is included in this section as Figure 1. The two portable compressor engines will move throughout the Apple Valley and Victorville facilities. In general, one of the compressors will be located at the Apple Valley site and the other one will be located at the Victorville site.

FIGURE 1 AREA MAP



CEMEX - Black Mountain Quarry Plant
 25220 Black Mountain Quarry Road
 Apple Valley, California 92307

Legend

- Receptor
- Property Boundary
- 1/4 Mile Radius
- 1 Mile Radius



CEMEX – BLACK MOUNTAIN QUARRY PLANT
 CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC
 SAN BERNARDINO COUNTY, CALIFORNIA

AREA MAP



Date: 4/12/2019

APPENDIX A EMISSION CALCULATIONS

**Appendix A, Table 1
CEMEX - Black Mountain Quarry and River Plant Compressor Engines**

Engine	Hours	Emissions per Engine at the Noted Hours of operation							TOXICS (lbs/yr)
		CO (lbs/yr)	SOx (lbs/yr)	NOx (lbs/yr)	VOC (lbs/yr)	PM10 (lbs/yr)	PM10 (lbs/yr)		
Emergency Fire Pump Permit E013353	50	31.25	0.17	121.53	3.47	4.86	4.8612 *		
Compressor Engine 1 Permit B013522	5000	7192.44	10.23	821.99	390.45	41.10	41.0997		
Compressor Engine 2 Permit B013523	5000	7192.44	10.23	821.99	390.45	41.10	41.0997		
Total (lbs/yr)		14416.13	20.64	1765.52	784.37	87.06	87.06		
ERC's Required									
(Apply 1.3 to 1 Ratio for Criteria Pollutants)									
SJVAPCD PM10 ERCs from Certificate No. 5-4847-4		18740.97	26.83	2295.17	1019.68	113.18	113.18	NA	
SJVAPCD SOx ERCs from Certificate No. 5-4585-5		NA	4	NA	NA	23	23	NA *	
878 pounds of SJVAPCD NOx ERCs, or 0.439 tons of		NA	NA	878	NA	NA	NA	NA *	
ERC Amount to Purchase		NA	22.83	1417.17	1019.68	90.18	90.18	NA	

* The initial authorization of the two compressor engines and an Emergency Fire Pump (Permit E013353) used these purchased offsets. This table shows the additional offsets required to increase the hours of operation for the two compressor engines to 5,000 hours each.

CEMEX - Black Mountain Quarry and River Plant Portable Air Compressor

Portable Compressor Engine (COMP1)

Application No	MD1000002306
Permit No	B013522
Equipment Certified Tier III	
Make	John Deere
Model	6068
EPA Family	
CARB EO	
Fuel Rate (gal/hr)	10.1
Fuel Rate (1000 gal/hr)	0.0101
Fuel Rate (1000 gal/year)	88.476
Engine Kilowatts (kW)	186.43
Engine Brake Horsepower (bhp)	250
Daily Operation (hrs/day)	24
Annual Operation (hrs/year)	5000

Pollutant	CAS #	Emission Factor	lbs/1000 gal	PTE (lbs/hr)	PTE Daily Emissions (lbs/day)	PTE Annual Emissions (lbs/year)	PTE Emissions (tons/year)	Emission Factor g/bhp-hr (1 kW= 1.341 bhp)
Criteria								
CO	42101	3.50 g/kW-hr	81.2926	0.8211	34.5237	7192	3.5962	2.610
SO _x	42401	0.0050 g/kW-hr	0.1156	0.0012	0.0491	10	0.0051	0.004
NO _x	42603	0.40 g/kW-hr	9.2906	0.0938	3.9456	822	0.4110	0.298
NMHC (VOC)	43104	0.1900 g/kW-hr	4.4130	0.0446	1.8741	390	0.1952	0.142
PM10	85101	0.0200 g/kW-hr	0.4645	0.0047	0.1973	41	0.0205	0.015
PM2.5	88101	0.0200 g/kW-hr	0.4645	0.0047	0.1973	41	0.0205	0.015
Toxics								
Diesel Particulate	9901		0.4645	4.69E-03	1.13E-01	4.11E+01		

PTE Daily Emissions (lbs/day)
19.70531443
0.028032374
2.252035935
1.069717069
0.112601797
0.112601797

Notes:
Emission Factors are from Off-Road Engine Standards for Tier 1 V Final

*Data used to calculate SOx Emission Factors			
Flow Rate	10.1 gal/hr		
Density of Ultra-low Sulfur Diesel No. 2	6.76 lbs/gal		
Sulfur Fraction of Ultra-low Sulfur Diesel No. 2	0.000015 g S	0.0015%	Rule M 431 Requires 0.05 % Max
Molecular Weights Sulfur	32.06 g/mol		
Sulfur dioxide	64.06 g/mol		
	1.998128509 g SO ₂ /g S		
Horsepower of Engine	186.4280388 kW		
Conversion	0.005364 1/kW		
	453.6 g/lbs		
Equation Used	10.1 gal/hr X 6.76 lbs/gal X 453.515 g/lb X 0.0015 g S/100 g (sulfur) X 1/186.43 kW X 64.06 g SO ₂ /32.06 g S =		
SOx Emissions =	0.0050 g SO ₂ /kW-hr		

1.341 hp = 1 kW

CEMEX - Black Mountain Quarry and River Plant Portable Air Compressor

Portable Compressor Engine (COMP2)

Application No	MD1000002306
Permit No	B013523
Equipment Certified Tier III	
Make	John Deere
Model	5068
EPA Family	
CARB EO	
Fuel Rate (gal/hr)	10.1
Fuel Rate (1000 gal/hr)	0.0101
Fuel Rate (1000 gal/year)	88.476
Engine Kilowatts (kW)	186.43
Engine Brake Horsepower (bhp)	250
Daily Operation (hrs/day)	24
Annual Operation (hrs/year)	5000

Pollutant	CAS #	Emission Factor	lbs/1000 gal	PTE (lbs/hr)	PTE Daily Emissions (lbs/day)	PTE Annual Emissions (lbs/year)	PTE Emissions (tons/year)	Emission Factor g/bhp-hr (1 kW= 1.341 bhp)
Criteria								
CO	42101	3.50 g/kW-hr	81.2926	0.8211	34.5237	7192	3.5962	2.610
SO _x	42401	0.0050 g/kW-hr	0.1156	0.0012	0.0491	10	0.0051	0.004
NO _x	42603	0.40 g/kW-hr	9.2906	0.0938	3.9456	822	0.4110	0.298
NMHC (VOC)	43104	0.1900 g/kW-hr	4.4130	0.0446	1.8741	390	0.1952	0.142
PM10	85101	0.0200 g/kW-hr	0.4645	0.0047	0.1973	41	0.0205	0.015
PM2.5	88101	0.0200 g/kW-hr	0.4645	0.0047	0.1973	41	0.0205	0.015
Toxic								
Diesel Particulate	9901		0.4645	4.69E-03	1.13E-01	4.11E+01		

PTE Daily Emissions (lbs/day)
19.70531443
0.028032374
2.252035935
1.069717069
0.112601797
0.112601797

NOTES:
Emission Factors are from Off-Road Engine Standards for Tier IV Final

*Data used to calculate SOx Emission Factors			
Fuel Rate	10.1 gal/hr		
Density of Ultra-Low Sulfur Diesel No. 2	6.76 lbs/gal		
Sulfur Fraction of Ultra-Low Sulfur Diesel No. 2	0.000015 g S	0.0015%	Rule M.431 Requires 0.05 % Max
Molecular Weights			
Sulfur	32.06 g/mol		
Sulfur dioxide	64.06 g/mol		
	1.998128509 g SO2/g S		
Horsepower of Engine	186.4280388 kW		
	0.005364 1/kW		
Conversions	453.6 g/lbs		
Equation Used	10.1 gal/hr X 6.76 lbs/gal X 453.515 g/lb X 0.0015 g S/100 g (sulfur) X 1/186.43 kW X 64.06 g SO2/52.06 g S =		
SOx Emissions =	0.0050 g SO2/kW-hr		

1.341 hp = 1 kW

APPENDIX B MDAQMD FORMS

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
BRAD POIRIEZ, EXECUTIVE DIRECTOR
 14306 Park Avenue, Victorville, CA 92392-2310
 760.245.1661 • Fax 760.245.2022
 Email: engineering@mdaqmd.ca.gov
 www.MDAQMD.ca.gov • @MDAQMD



General Application Form

Remit **\$288.00** with this document (**\$164.00** for change of owner)

PLEASE TYPE OR PRINT

Section 1: Owner information

a. Permit to be issued to (company name): CEMEX Construction Material Pacific, LLC		b. Federal tax ID #: 72-0296500	
c. Mailing/billing address (for above company name) <i>include city, state and zip code</i> : 16800 North "E" Street, Victorville, CA 92394			
d. Facility or business license name (for equipment location): CEMEX Construction Material Pacific, LLC			
e. Facility Address --- Location of equipment (if same as for company, enter "Same"): 25220 Black Mountain Quarry Road, Apple Valley, CA 92307			Equip. coordinates (lat/long): 34.82417 / -117.100819
f. Contact name: Alejandra V. Silva	Title: Environmental Manager	Email address: alejandrav.silva@cemex.com	Phone: (780) 381-7649
General nature of business: Cement Manufacturing			Company NAICS: 327310
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Portable Compressor Engine - John Deere, Name - COMP1	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: B013522 _____ Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information

Equipment description (give a brief description of the equipment and/or process): Diesel-fired Internal Combustion Engine - Portable Compressor Engine John Deere	
Power Output: 250 HP (186 kW)	
Engine Model Number: B056	
Engine Serial Number: HOP081888	
Amendment to increase the annual hours of operation from 480 to 5,000.	
Manufacturer: John Deere	Model: e066 Serial number: HOP081888
Add-on air pollution control equipment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Note: most APCE require a separate application)	
If yes: Manufacturer: _____ Model: _____ Serial #: _____ CARB EO#: _____	
Type (specify): _____	
Stack data Exhaust stack height from ground: 10 feet Exhaust stack diameter: 0.5 feet	
Stack is: <input checked="" type="checkbox"/> horizontal <input type="checkbox"/> vertical <input type="checkbox"/> open <input type="checkbox"/> weather cap	
Vent data: Exhaust temp. _____ °F Maximum exhaust rate (CFM): _____	

-For District use only-

Application number: <i>Paid PCR</i>	Invoice number: <i>491039/MD11528</i>	Permit number: <i>13013522</i>	Company/facility number: <i>1/5</i>
--	--	-----------------------------------	--

Section 4: Emissions data

Emission Factor Basis (attach any source specified) Please see attached document

Manufacturer
 Source test
 MDAQMD default
 USEPA AP-42
 Other (please specify): _____

Emissions data

Pollutant	Pre-control max. emissions	Units	Post control max. emissions	Units
NO _x	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
CO	_____	_____	_____	_____
PM ₁₀	_____	_____	_____	_____
SO _x	_____	_____	_____	_____

Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.

Section 5: Operation information

Fuel Consumption: ²³ _____ at max rated load gal/hour
 SCF/hour
 MMBtu/hr

Typical load: _____

Facility annual operation by quarters (percent): <input checked="" type="checkbox"/> Uniform OR _____ % Jan-Mar _____ % Apr-Jun _____ % Jul-Sep _____ % Oct-Dec	Expected operating hours of equipment ²⁴ _____ Hrs/day _____ Days/wk _____ Wk/yr Total annual hours ⁶⁰⁰⁰ _____
---	--

Section 6: Receptor information

Distance (feet) and direction to the property line of closest: ^{10,500 ft} _____ residence ^{20,000 ft} _____ business ^{20,000 ft} _____ school

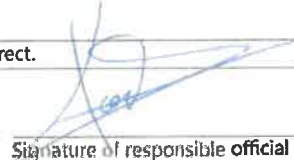
Name of closest school (K-12) Sycamore Rocks Elementary School

If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S §42301.6)

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 7: Certification

I hereby certify that all information contained herein is true and correct.

<u>LUIS LOPEZ</u>	Plant Manager		<u>10/11/19</u>
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: (780) 952-4864 or (780) 381-7693		Email: <u>carlosgabriel.uruchurtu@cemax.com</u>	

Application submission instructions:

- 1) Submit completed application to Engineering@mdaqmd.ca.gov
- 2) Pay the corresponding application fee of \$288 per permit for new or modified permit (or \$164 for change of owner) via check or credit card.

Payment by check:

Make check payable to the Mojave Desert AQMD
 Mail the check with a copy of this completed application to:
Mojave Desert AQMD
 14306 Park Avenue
 Victorville, CA 92392

Payment by credit card:

Pay online at <http://www.mdaqmd.ca.gov>
 Click "Pay Fees"
 Please note: *a surcharge applies for all credit card payments.*

- 3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov
 Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
BRAD POIRIEZ, EXECUTIVE DIRECTOR
 14306 Park Avenue, Victorville, CA 92392-2310
 760.245.1661 • Fax 760.245.2022
 Email: engineering@mdaqmd.ca.gov
 www.MDAQMD.ca.gov • @MDAQMD



General Application Form

Remit **\$288.00** with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT

Section 1: Owner information

a. Permit to be issued to (company name): CEMEX Construction Material Pacific, LLC		b. Federal tax ID #: 72-0296500	
c. Mailing/billing address (for above company name) <i>include city, state and zip code</i> : 16888 North "E" Street, Victorville, CA 92394			
d. Facility or business license name (for equipment location): CEMEX Construction Material Pacific, LLC			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 25220 Black Mountain Quarry Road, Apple Valley, CA 92307			Equip. coordinates (lat/long): 34.82417 / -117.100819
f. Contact name: Alejandra V. Silva	Title: Environmental Manager	Email address: alejandrav.silva@cemex.com	Phone: (760) 391-7648
General nature of business: Cement Manufacturing			Company NAICS: 327310
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Portable Compressor Engine - John Deere, Name - COMP2	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: 8013523 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information

Equipment description (give a brief description of the equipment and/or process): Diesel-fired Internal Combustion Engine - Portable Compressor Engine John Deere	
Power Output: 250 HP (186 kW)	
Engine Model Number: 6068	
Engine Serial Number: HOP081679	
Amendment to increase the annual hours of operation from 480 to 5,000.	
Manufacturer: John Deere	Model: 6068 Serial number: HOP081679
Add-on air pollution control equipment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Note: most APCE require a separate application)	
If yes: Manufacturer: Model: Serial #: CARB EO#:	
Type (specify):	
Stack data Exhaust stack height from ground: 10 feet Exhaust stack diameter: 0.5 feet	
Stack is: <input checked="" type="checkbox"/> horizontal <input type="checkbox"/> vertical <input type="checkbox"/> open <input type="checkbox"/> weather cap	
Vent data: Exhaust temp. °F Maximum exhaust rate (CFM):	

-For District use only-

Application number: <i>paid PCR</i>	Invoice number: <i>49640/MD 11529</i>	Permit number: <i>B013523</i>	Company/facility number: <i>1/5</i>
--	--	----------------------------------	--

Section 4: Emissions data

Emission Factor Basis (attach any source specified): Please see attached document

Manufacturer
 Source test
 MDAQMD default
 USEPA AP-42
 Other (please specify): _____

Emissions data

Pollutant	Pre-control max. emissions	Units	Post control max. emissions	Units
NO _x				
NMHC				
CO				
PM ₁₀				
SO _x				

Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.

Section 5: Operation information

Fuel Consumption: TO-19 _____ at max rated load gal/hour
 SCF/hour
 MMBtu/hr

Typical load: _____

Facility annual operation by quarters (percent): <input checked="" type="checkbox"/> Uniform OR _____ % Jan-Mar _____ % Apr-Jun _____ % Jul-Sep _____ % Oct-Dec	Expected operating hours of equipment ²⁴ _____ Hrs/day _____ Days/wk _____ Wk/yr Total annual hours _____
---	--

Section 6: Receptor information

Distance (feet) and direction to the property line of closest: 18,500 ft residence
20,880 ft business
29,837 ft school


Name of closest school (K-12) Sycamore Rocks Elementary School

If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S §42301.6)

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 7: Certification

I hereby certify that all information contained herein is true and correct.

<u>Luis Lopez</u>	Plant Manager		<u>10/11/19</u>
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: (760) 952-4864 or (760) 381-7693		Email: <u>carlosgabriel.uruchurtu@cemex.com</u>	

Application submission instructions:

- 1) Submit completed application to Engineering@mdaqmd.ca.gov
- 2) Pay the corresponding application fee of \$288 per permit for new or modified permit (or \$164 for change of owner) via check or credit card.

Payment by check:

Make check payable to the Mojave Desert AQMD
 Mail the check with a copy of this completed application to:

Mojave Desert AQMD
 14306 Park Avenue
 Victorville, CA 92392

Payment by credit card:

Pay online at <http://www.mdaqmd.ca.gov>
 Click "Pay Fees"

Please note: *a surcharge applies for all credit card payments.*

- 3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov
 Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

Section 4: Emissions data

Emission Factor Basis (attach any source specified): _____				
USEPA family name _____		CARB family name _____		
<input type="checkbox"/> Manufacturer	<input type="checkbox"/> Source test	<input type="checkbox"/> MDAQMD default	<input type="checkbox"/> USEPA AP-42	
<input type="checkbox"/> Other (please specify) _____				
Emissions data:				
Pollutant	Pre-control max. emissions	Units	Post control max. emissions	Units
NO _x	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
CO	_____	_____	_____	_____
PM ₁₀	_____	_____	_____	_____
SO _x	_____	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.				

Section 5: Powered Item

This ICE is used to power: <input type="checkbox"/> Electrical generator <input checked="" type="checkbox"/> Compressor <input type="checkbox"/> Pump <input type="checkbox"/> Paint spray gun <input type="checkbox"/> Conveyor or drive				
<input type="checkbox"/> Fire pump <input type="checkbox"/> Other (specify): _____				
PERP registration (if applicable):				
Manufacturer: _____	Model: _____	Serial No.: _____	Type/size/rating: _____	

Section 6: Operation information

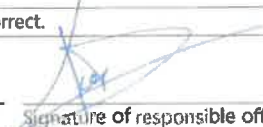
Fuel Consumption: ^{10.1} _____ at max rated load <input checked="" type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent):	
<input checked="" type="checkbox"/> Uniform OR _____ % Jan-Mar _____ % Apr-Jun	Expected operating hours of equipment
_____ % Jul-Sep _____ % Oct-Dec	²⁴ _____ Hrs/day _____ Days/wk _____ Wk/yr
	Total annual hours ⁹⁰⁰⁰ _____

Section 7: Receptor information

Distance (feet) and direction to the property line of closest: <u>18,500 ft</u> residence <u>20,660 ft</u> business <u>29,837 ft</u> school
Name of closest school (K-12) <u>Byzantine Rocks Elementary School</u>
<i>If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S 542301.6)</i>

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 8: Certification

I hereby certify that all information contained herein is true and correct.			
<u>Luis Lopez</u>	Plant Manager		<u>10/11/19</u>
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: (760) 952-4864 or (760) 381-7693		Email: <u>carosgabriel.uruchurtu@cemex.com</u>	

Application submission instructions:

- 1) Submit completed application to Engineering@mdaqmd.ca.gov
- 2) Pay the corresponding application fee of \$288 per permit for new or modified permit (or \$164 for change of owner) via check or credit card.

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Mojave Desert AQMD
 14306 Park Avenue
 Victorville, CA 92392

Payment by credit card:
 Pay online at <http://www.mdaqmd.ca.gov>
 Click "Pay Fees"
 Please note: *a surcharge applies for all credit card payments.*

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 Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

Section 4: Emissions data

Emission Factor Basis (attach any source specific information)

USEPA family name _____ CARB family name _____

Manufacturer Source test MDAQMD default USEPA AP-42

Other (please specify): _____

Emissions data:

Pollutant	Pre-control max. emissions	Units	Post control max. emissions	Units
NO _x	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
CO	_____	_____	_____	_____
PM ₁₀	_____	_____	_____	_____
SO _x	_____	_____	_____	_____

Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.

Section 5: Powered Item

This ICE is used to power: Electrical generator Compressor Pump Paint spray gun Conveyor or drive

Fire pump Other (specify): _____

PERP registration (if applicable): _____

Manufacturer: _____ Model: _____ Serial No.: _____ Type/size/rating: _____

Section 6: Operation information

Fuel Consumption: ¹⁰¹ _____ at max rated load gal/hour SCF/hour MMBtu/hr

Typical load: _____

Facility annual operation by quarters (percent): <input checked="" type="checkbox"/> Uniform OR _____ % Jan-Mar _____ % Apr-Jun _____ % Jul-Sep _____ % Oct-Dec	Expected operating hours of equipment ²⁴ _____ Hrs/day _____ Days/wk _____ Wk/yr Total annual hours ⁵⁰⁰⁰ _____
---	--

Section 7: Receptor information

Distance (feet) and direction to the property line of closest: 15,500 ft residence 20,000 ft business 20,037 ft school


Name of closest school (K-12) Sycamore Rocks Elementary School

If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S 542301.6)

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 8: Certification

I hereby certify that all information contained herein is true and correct.

<u>Luis LOPEZ</u>	Plant Manager		<u>10/11/19</u>
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: (760) 952-4864 or (760) 381-7693		Email: <u>carlosgabriel.uruchurtu@cemex.com</u>	

Application submission instructions:

- 1) Submit completed application to Engineering@mdaqmd.ca.gov
- 2) Pay the corresponding application fee of \$288 per permit for new or modified permit (or \$164 for change of owner) via check or credit card.

Payment by check:
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 Mail the check with a copy of this completed application to:
Mojave Desert AQMD
 14305 Park Avenue
 Victorville, CA 92392

Payment by credit card:
 Pay online at <http://www.mdaqmd.ca.gov>
 Click "Pay Fees"
 Please note: a surcharge applies for all credit card payments.

- 3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov
 Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

Mojave Desert Air Quality Management District

TITLE V – PERMIT AMENDMENT / MODIFICATION

I. PERMIT ACTION (Check appropriate box)


- ADMINISTRATIVE AMENDMENT MINOR MODIFICATION SIGNIFICANT MODIFICATION
 OFF-PERMIT CHANGE

1. FACILITY NAME: CEMEX - Black Mountain Quarry Plant / CEMEX - River Plant	
2. FACILITY ID: 00005 / 00006	
3. TITLE V PERMIT NO: 100005	
4. TYPE OF ORGANIZATION: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
5. COMPANY NAME: CEMEX Construction Material Pacific, LLC	
6. COMPANY MAILING/BILLING ADDRESS: STREET/P.O. BOX: <u>16888 North E Street</u> CITY: <u>Victorville</u> STATE: <u>California</u> 9-DIGIT ZIP CODE: <u>92394-2999</u>	
7. FACILITY ADDRESS: STREET: <u>25220 Black Mountain Quarry Road / 16888 North E Street</u> CITY: <u>Apple Valley / Victorville</u> STATE: <u>California</u> 9-DIGIT ZIP CODE: <u>92307-9341 / 92394-2999</u>	PROPOSED DATE OF INSTALLATION: July 2019
8. DISTANCES (FEET AND DIRECTION) TO CLOSEST: FENCELINE: <u>>1,000 ft / SE</u> RESIDENCE: <u>>5,280 ft/ West</u> BUSINESS: <u>>5,280 ft / West</u> SCHOOL: <u>>5,280 ft / South</u>	
9. GENERAL NATURE OF BUSINESS: Cement Manufacturing - Manufacturing Clinker for Cement	
10. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary) This application is to authorize additional hours of operation for two diesel-fired portable compressor engines. The two diesel-fired portable compressor engines will be moved among each facility depending on the need at either the Black Mountain Quarry Plant or the River Plant. The annual hours of operation of the two diesel-fired portable compressor engines are being increased from 480 to 5,000 hours per year. Effected Permit Numbers: B013522 and B013523	
11. PERSON TO CONTACT FOR INFORMATION ON THIS APPLICATION: NAME: <u>Alejandra V Silva</u> PHONE NUMBER: <u>760-381-7649</u> TITLE: <u>Environmental Manager</u> EMAIL: <u>alejandrav.silva@cemex.com</u>	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and check all for confirmation).

- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:



Signature of Responsible Official

10/11/19

Date

Lois G Lopez

Name of Responsible Official (please print)

Plant Manager

Title of Responsible Official (please print)

For AQMD Use Only:

DATE STAMP	DISTRICT PERMIT APPLICATION NO: _____	COMPANY /FACILITY ID: _____
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APPENDIX C Emission Credits Reduction

Emission Credits Reduction to be purchased upon to Mojave Desert AQMD approval:

Current Owner	Certificate No.	Pollutant	Pounds/MDAQMD	Pounds/SJVAPCD	Pounds/QT SJVAPCD	Tons
Sierra Power Corporation	S-5065-2	NOx	3,500.00	4,550.00	1,137.50	2.275
Benta Energy LLC	C-1435-4	PM10	91.00	118.30	29.58	0.059
Tauber Oil Company	C-1308-5	SOx	23.00	29.90	7.48	0.015

End of Application

Guy Smith

From: Alejandra V Silva <alejandrav.silva@cemex.com>
Sent: Wednesday, March 25, 2020 1:47 PM
To: Guy Smith
Cc: Sheri Haggard; Darlene Marie Bray
Subject: RE: SOx ERCs

Hi Guy,

Thank you for the info; I will pass it along to the Corporate team for the purchase. Also, I will like to inform you that Cemex would like to pursue the 8760 hrs for each compressor; therefore, I will be submitting a permit mod application package for the additional 4510 hrs per compressor.

Regards,



Alejandra Vargas Silva

Environmental Manager- Environmental - United States of America
Office : River +760(381)7649 Quarry +760(381)7629 Fax: +760(245)0191 Mobile: +714(515)2406
Address: 16888 "E" Street Victorville, CA 92394
e-Mail: alejandrav.silva@cemex.com
www.cemexusa.com



From: Guy Smith <gsmith@mdaqmd.ca.gov>
Sent: Wednesday, March 25, 2020 1:23 PM
To: Alejandra V Silva <alejandrav.silva@cemex.com>
Cc: Sheri Haggard <shaggard@mdaqmd.ca.gov>
Subject: SOx ERCs

Good afternoon, Alejandra: I thought I'd pass along the latest ERC summary for the District – there are plenty of SOx credits to be had within the District and it might be easier for USEPA to approve the Mod without inter-District transfers.

Thanks,

Guy Smith
Air Quality Engineer II
760.245.1661, ext. 1854 Office
760.245.2022 Fax
MDAQMD.ca.gov

@MDAQMD on [Facebook](#), [Twitter](#) and [Instagram](#)



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notified that any review, dissemination, distribution or duplication of this communication, and the information contained in it, is strictly prohibited. If you are not the intended recipient, please contact the sender and immediately destroy all copies of the original message.

Appendix B:
ERC Package



Mojave Desert AQMD
14306 Park Avenue
Victorville CA 92392

Receipt # 16444
 Date 7/16/2020
 From

Lookup	Company Name	Payment Type	Check #	Total Amount Received
10181	APPLICANT	Check	0001217	87.00

Description			Total
ERC APP cemex san joaquin valley air pollution control district	ERC Application Fees		87.00

Invoiced Items Paid :

Invoice Number	Invoice Date	Invoice Reference	Invoice Description	Inv Amount Paid
----------------	--------------	-------------------	---------------------	-----------------



RECEIVED
MDAQMD
20 JUL 16 PM 1:13

AQC Environmental Brokerage Services, Inc.
5881 Engineer Drive
Huntington Beach, CA 92649
P: (714) 397-5508
www.aqc-inc.com

July 14, 2020

Mr. Brad Poiriez
Air Pollution Control Officer
Mojave Desert Air Quality Management District
14306 Park Avenue
Victorville, CA 92392

Dear Mr. Poiriez:

Cemex Construction Materials Pacific, LLC ("Cemex") is requesting the approval of an inter-district transfer of Emission Reduction Credits ("ERCs") from San Joaquin Valley Air Pollution Control District ("SJVAPCD") to Mojave Desert Air Quality Management District ("MDAQMD"). The following ERCs have been transferred to Cemex from Pilkington North America Inc. Cemex's new SJVAPCD certificates are provided in this package for your review:

1. 12 pounds of PM10 ERCs, or 0.006 tons, spread evenly across quarters, derived from Certificate formerly No. N-1289-4 (new Certificate No. N-1545-4)
2. 220 pounds of NOx ERCs, or 0.11 tons, spread evenly across quarters, derived from Certificate formerly No. N-1530-2 (new Certificate No. N-1543-2)
3. 50 pounds of SOx ERCs, or 0.025 tons, spread evenly across quarters, derived from Certificate formerly No. N-1532-5 (new Certificate No. N-1541-5)
4. 50 pounds of VOC ERCs, or 0.025 tons, spread evenly across quarters, derived from Certificate formerly No. N-1198-1 (new Certificate No. N-1539-1)

We ask for your consideration of this transfer upon analysis of the attached items in this transfer package and request the entrance of such credits into Mojave Desert Air Quality Management District. Please notify us once you have approved of this transfer, and any next steps that need to be taken. SJVAPCD has approved of the transfer as of 7/14/20.

Upon MDAQMD approval, please send the newly issued certificates to:

Cemex Inc
Attention: Alejandra Silva
16888 N. "E" Street
Victorville, CA 92394
alejandrav.silva@cemex.com

Attached in this transmittal are the following items necessary to process the ERC Transfer:

- Purchase and Sale Agreement executed by both parties
- Letter from the Buyer requesting the inter-district transfer
- Transfer fee check in the amount of \$87.00
- Prelim N-1140725 report detailing Pilkington's ERCs
- SJVAPCD newly-issued ERC certificates and approval letters to Buyer and Seller

Please send written confirmation of the ERC transfer from Pilkington North America Inc to Cemex Inc or email copies of the newly issued, original certificates to my attention at jferlita@aqc-inc.com.

AQC Environmental Brokerage Services, Inc.
Attention: Jackie Ferlita
5881 Engineer Drive
Huntington Beach, CA 92649

Thank you for your assistance in processing this ERC transfer request. Please call me at 714-397-5508 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Jaclyn Ferlita". The signature is fluid and cursive, with a large loop at the end.

Jaclyn Ferlita
President, Emissions Broker
AQC Environmental Brokerage Services, Inc.



AQC Environmental Brokerage Services, Inc.
 5881 Engineer Drive
 Huntington Beach, CA 92649
 P: (714) 397-5508

Purchase and Sale of San Joaquin Valley Air Pollution Control District Emission Reduction Credits ("Agreement")

Buyer:	Cemex Inc. on behalf of Cemex Construction Materials Pacific, LLC	Address: 10100 Katy Fwy., Suite 300 Houston, TX 77043
Buyer Contact:	Ernesto Liboreiro	Contact Telephone Number: 713-722-1711 Email: ernesto.liboreiro@cemex.com
Seller:	Pilkington North America Inc	Address: 811 Madison Ave. Toledo, OH 43604
Seller Contact:	Richard Altman	Contact Telephone Number: 419-247-4814 Email: Richard.altman@nsg.com
Transaction Date:	April 30, 2020	

- 12 pounds of PM10 ERCs, or 0.006 tons, spread evenly across quarters, derived from Certificate No. N-1289-4
- 220 pounds of NOx ERCs, or 0.11 tons, spread evenly across quarters, derived from Certificate No. N-1530-2
- 50 pounds of SOx ERCs, or 0.025 tons, spread evenly across quarters, derived from Certificate No. N-1532-5
- 50 pounds of VOC ERCs, or 0.025 tons, spread evenly across quarters, derived from Certificate No. N-1198-1

To be distributed as detailed herein:

Product & Quantity:	SJVAPCD Certificate No: N-1289-4, N-1530-2, N-1532-5, N-1198-1				
	Product	Quarter 1 (lbs.)	Quarter 2 (lbs.)	Quarter 3 (lbs.)	Quarter 4 (lbs.)
	PM10	3	3	3	3
	NOx	55	55	55	55
	SOx	12.5	12.5	12.5	12.5
	VOC	12.5	12.5	12.5	12.5

Purchase & Sale: Seller shall sell to Buyer, and Buyer shall purchase from Seller 0.006 tons of SJVAPCD PM10 ERCs at \$30,000.00 per ton, 0.11 tons of SJVAPCD NOx ERCs at \$55,000.00 per ton, 0.025 tons of SJVAPCD SOx ERCs at \$30,000.00 per ton, and 0.025 tons of SJVAPCD VOC ERCs at \$30,000.00 per ton; totaling \$7,730.00.

Contingencies of Approval: Upon the following Contingencies of Approval being satisfied, Buyer will purchase the Product and Quantity of ERCs:

- Approval of ERC exit by the San Joaquin Valley APCD Air Pollution Control Officer
- Approval of ERC entrance by the Mojave Desert AQMD Air Pollution Control Officer

Transfer and Payment Terms: Upon Contingencies of Approval being satisfied, Buyer Agrees to buy, and Seller agrees to sell the Product and Quantity of ERCs.

Broker will work with Buyer and Seller to submit all necessary transaction paperwork to complete the ERC transfer.

Buyer agrees to pay SJVAPCD/MDAQMD ERC transfer fees.

Within two (2) business days of receipt of transaction paperwork, Buyer will sign the Purchase and Sale Agreement (PSA) and send a PDF copy to Seller. Seller will countersign the PSA and send a PDF copy to Broker.

Buyer will send one Letter of Intent to purchase on company letterhead (intended for SJVAPCD), and one Letter of Intent to purchase on company letterhead (intended for MDAQMD) to Broker at the following address:

AQC
Attn: Jackie Ferlita
21010 Pacific City Circle #1316
Huntington Beach, CA 92648

Seller will sign the ERC transfer form and send to Broker with original signature to the address listed above.

On receipt of Buyer's letters (from Buyer) and transfer form (from Seller), Broker will submit both letters, transfer form, fully executed PSA, transfer fees, and AQC's letter to SJVAPCD outlining the details and nature of the transfer to SJVAPCD.

Buyer agrees to submit Total price, Brokerage, and SCAQMD Transfer fee to Broker within thirty (30) business days from execution of Purchase and Sale Agreement.

Within five (5) business days of written notice from the SJVAPCD/MDAQMD of transfer of ERCs from Seller to Buyer, Broker will submit Purchase Price less Brokerage to Seller.

All funds paid shall be rendered in the form of immediately available United States dollars. Payment shall be made by wire transfer or in such other form as agreed to by the parties.

Buyer and Seller shall cooperate fully to obtain all required approvals and/or documents which may be required to retire ERCs in Buyer's name.

IN WITNESS WHEREOF, the Buyer and Seller hereto made and executed this Agreement for the Purchase and Sale of ERCs, signed by their duty authorized officers or individuals, as of the day and year first above written.

Buyer: Cemex Inc. on behalf of Cemex Construction Materials Pacific, LLC		Seller: Pilkington North America Inc	
Signature: 	Title: Chief Economist	Signature: 	Title: REGIONAL DIRECTOR
Printed Name: Ernesto S. Liboreiro	Date: 5/4/20	Printed Name: RICHARD A. ALTMAN	Date: 5-5-2020



April 30, 2020

Mr. Brad Poiriez
Air Pollution Control Officer
Mojave Desert Air Quality Management District
14306 Park Avenue
Victorville, CA 92392

Re: Transfer of ERCs from San Joaquin Valley Air Pollution Control District to Mojave Desert Air Quality Management District

Dear Mr. Poiriez:

Cemex Construction Materials Pacific, LLC (“Cemex”) requests the approval of an inter-district transfer of Emission Reduction Credits (“ERCs”) from San Joaquin Valley Air Pollution Control District (“SJVAPCD”) to Mojave Desert Air Quality Management District (“MDAQMD”) pursuant to California Health and Safety Code Section 40709.6. Section 40709.6 requires an inter-district transfer to be approved by a resolution adopted by the Governing Board or Air Pollution Control Officer in each District. Cemex and Pilkington North America Inc (“Pilkington”) are requesting the transfer of title to certain ERCs, which are defined in and governed by SJVAPCD, to Cemex to be used in the MDAQMD for the proposed Title V Significant Modification to allow Cemex’s two portable diesel-powered air compressors to operate 8,760 hours each per year.

Cemex is kindly requesting the approval of this transfer by the SJVAPCD and MDAQMD.

ERCs Requested for Transfer

Cemex has contracted for the purchase of 0.006 tons of Particulate Matter (“PM10”), 0.11 tons of Nitrous Oxides (“NOx”), 0.025 tons of Sulfur Oxides (“SOx”), and 0.025 tons of Volatile Organic Compounds (“VOC”) ERCs from Pilkington’s SJVAPCD ERC Certificates No. N-1289-4, N-1530-2, N-1532-5, and N-1198-1, respectively. Cemex is requesting SJVAPCD approve the export of the aforementioned quantities from the ERC certificates detailed below:

Product	Quarter 1 (lbs)	Quarter 2 (lbs)	Quarter 3 (lbs)	Quarter 4 (lbs)	Total Tons
PM10	3	3	3	3	0.006

NOx	55	55	55	55	0.11
SOx	12.5	12.5	12.5	12.5	0.025
VOC	12.5	12.5	12.5	12.5	0.025

Cemex has an agreement to purchase the ERCs needed for the project from Pilkington, which were a result of the shutdown of a glass furnace in Lathrop, CA. The ERC Generation application is included in Attachment A.

Therefore, Cemex is requesting the approval of an inter-district transfer of ERCs from SJVAPCD to MDAQMD, pursuant to California Health and Safety Code, Section 40709.6.

California Health and Safety Code

Listed below are the applicable sections of the Health and Safety Code and how each requirement has been addressed:

California Health and Safety Code 40709.6 allows for the offset of emissions at a stationary source located in one air district with emissions reductions credited to a stationary source in another air district, outside of the air basin if the following conditions are met; the stationary source to which the emissions reductions are credited is located in an upwind district that is classified as being a worse non-attainment status than the downwind district, and the stationary source at which there are emissions increase to be offset is located in a downwind district that is overwhelmingly impacted by emissions transported from the upwind district. The use of Pilkington's ERCs at Cemex's Victorville facility satisfies both requirements.

Furthermore, the California Health and Safety Code 40709.6 stipulates that inter-district ERC transfers must be approved by a resolution adopted by the governing boards of both air districts or by the air pollution control officers, if such authority is delegated by the boards. The evaluation of the transaction includes factors such as the impact of the offset on air quality, public health, and regional economy.

MDAQMD is currently waiting for SJVAPCD to approve the transfer of ERCs which will be surrendered to MDAQMD for the issuance of the permit for the aforementioned project. MDAQMD will not grant the requested authorization to construct unless it determines that the project complies with relevant federal and state rules, regulations, and air quality standards.

The transfer of the subject ERCs will result in a net air quality benefit for the San Joaquin Valley as the transfer of the aforementioned ERCs will prevent their use to offset emissions in the future, while the offset ratios required by MDAQMD New Source Review regulations will ensure that a greater amount of ERCs will be used than pollutants emitted. Pursuant to MDAQMD regulations, Cemex will submit the subject ERCs at a ratio of at least 1.3 to 1, fully offsetting the potential emissions increase from its project.

Assessment

The following amounts of Criteria Pollutant emissions must be offset for the proposed Title V Significant Modification to allow Cemex's two portable diesel-powered air compressors to operate 8,760 hours each per year:

- NO_x: 167.19 lbs
- VOC: 33.42 lbs
- SO_x: 39.93 lbs
- PM₁₀: 6.56 lbs

In reviewing both air districts' rules governing glass melting furnaces, it has been determined that the ERCs as issued meet the RACT Upon Use requirement and therefore no adjustments are needed. The ozone precursor NO_x and VOC emissions have a 1.3:1 offset ratio, therefore the total offsets exclusive of any inter-pollutant transfer offset ratios, are as follows:

- NO_x: 217.35 lbs
- VOC: 43.45 lbs
- SO_x: 39.93 lbs
- PM₁₀: 6.56 lbs

It has been determined that since the ERCs are coming from a same or worse attainment area, there is no Inter-District added transfer ratio that needs to be added to the volumes.

As there is a requirement to round up to the nearest whole pound, the final totals will be as follows, exclusive of any inter-pollutant transfer offset ratios, and Cemex has rounded up to request the transfer of the following volumes:

- NO_x: 220 lbs
- VOC: 50 lbs
- SO_x: 50 lbs
- PM₁₀: 12 lbs

Public Health

The use of SJVAPCD ERCs for the project are expected to have a net benefit to air quality, and public health. The quantity of ERCs used will exceed the project's maximum potential emissions, the ERC transfer may result in a future public health benefit due to the 1.3 to 1 offset ratio in MDAQMD.

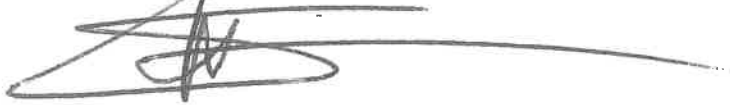
Regional Economy

These ERCs would allow continued operation of a successful business entity in the Mojave Desert and an employer of many residents of this region. The sustained jobs, capital investment, and ongoing operations associated with the project will have a positive impact on the regional economy while fully complying with very stringent air quality regulatory requirements.

Based on the foregoing reasons, we request that SJVAPCD and MDAQMD's Air Pollution Control Officers evaluate and approve the transfer of Pilkington's ERCs between SJVAPCD and MDAQMD.

Thank you for your time and consideration with this matter. Please contact me at (530) 378-8179 if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke extending to the right.

Ernesto Liboreiro
Chief Economist
CEMEX



CERTIFIED MAIL

July 13, 2020

Alejandra Silva
Cemex, Inc.
16888 N. "E" Street
Victorville, CA 92394

**Re: Issuance of Emission Reduction Credit Certificates:
N-1543-2, N-1545-4, N-1539-1, and N-1541-5
Project: N-1201759, 1201767, 1201768, 1201769**

Dear Ms. Silva:

The Air Pollution Control Officer (APCO) has approved the inter-district transfer of the emission reduction credit (ERC) certificates N-1543-2, N-1545-4, N-1539-1, and N-1541-5 to Cemex, Inc. located in the Mojave Desert Air Quality Management District. The District Governing Board granted authority to the APCO to approve inter-district transfer of ERCs pursuant to Resolution #99-02-04, approved on February 18, 1999.

Enclosed are Emission Reduction Credit (ERC) certificates N-1543-2 (NO_x), N-1545-4 (PM₁₀), N-1539-1 (VOC), and N-1541-5 (SO_x) issued to Cemex, Inc. in the quarterly amounts requested. The enclosed certificates reflect the partial transfer of ownership of ERCs from Pilkington North America, Inc. in Lathrop, CA.

Thank you for your cooperation in this matter. Should you have any questions, please telephone Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,

Arnaud Marjollet
Director of Permit Services

AM:dk

Enclosures: ERC certificates N-1543-2, N-1545-4, N-1539-1, and N-1541-5

Samir Sheikh
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95358 8718
Tel: (209) 557 6400 FAX: (209) 557 6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-8000 FAX: (559) 230-8061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308 9725
Tel: (661) 392-5500 FAX: (661) 392-5585



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT


HEALTHY AIR LIVING™

Emission Reduction Credit Certificate N-1543-2

ISSUED TO: CEMEX, INC.
ISSUED DATE: July 13, 2020
LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For NOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
55 lbs	55 lbs	55 lbs	55 lbs

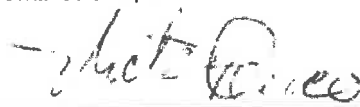
Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services





Emission Reduction Credit Certificate
N-1545-4

ISSUED TO: CEMEX, INC.
ISSUED DATE: July 13, 2020
LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For PM10 Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
3 lbs	3 lbs	3 lbs	3 lbs

Portion of above PM10 Reductions that is PM2.5:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
95.8%	95.8%	95.8%	95.8%
3 lbs	3 lbs	3 lbs	3 lbs

Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services





San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Emission Reduction Credit Certificate
N-1539-1

ISSUED TO: CEMEX, INC.
ISSUED DATE: July 13, 2020
LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For VOC Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
12 lbs	12 lbs	13 lbs	13 lbs

Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.



Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Emission Reduction Credit Certificate
N-1541-5

ISSUED TO: CEMEX, INC.
ISSUED DATE: July 13, 2020
LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For SOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
12 lbs	12 lbs	13 lbs	13 lbs

Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.



Samir Sheikh, Executive Director / APCO

Arnaud Marjollet

Arnaud Marjollet, Director of Permit Services



CERTIFIED MAIL

July 13, 2020

Richard Altman
Pilkington North America Inc.
811 Madison Avenue
Toledo, OH 43604

**Re: Issuance of Emission Reduction Credit Certificates:
N-1540-1, N-1544-2, N-1546-4, and N-1542-5
Project: N-1201759, 1201767, 1201768, 1201769**

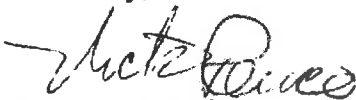
Dear Mr. Altman:

The Air Pollution Control Officer (APCO) has approved the inter-district transfer of ownership of emission reduction credit (ERC) certificates N-1543-2, N-1545-4, N-1539-1, and N-1541-5 to Cemex, Inc. located in the Mojave Desert Air Quality Management District. The District Governing Board granted authority to the APCO to approve inter-district transfer of ERCs pursuant to Resolution #99-02-04, approved on February 18, 1999.

Enclosed are Emission Reduction Credit (ERC) certificates N-1540-1 (VOC), N-1544-2 (NO_x), N-1546-4 (PM₁₀), and N-1542-5 (SO_x) issued to Pilkington North America Inc. in the quarterly amounts requested. The enclosed certificates reflect the partial transfer of ownership from ERC certificates N-1530-2 (NO_x), N-1289-4 (PM₁₀), N-1198-1 (VOC), and N-1532-5 (SO_x), which are now null and void.

Thank you for your cooperation in this matter. Should you have any questions, please telephone Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,



Arnaud Marjollet
Director of Permit Services

AM:dk

Enclosures: ERC certificates N-1540-1, N-1544-2, N-1546-4, and N-1542-5

Samir Sheikh
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356 8718
Tel: (209) 557 6400 FAX: (209) 557-6475

Central Region (Main Office)
1890 E. Gettysburg Avenue
Fresno, CA 93728-0244
Tel: (559) 230-8000 FAX: (559) 230-8061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: (661) 392 5500 FAX: (661) 392 5585



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT


HEALTHY AIR LIVING™

Emission Reduction Credit Certificate
N-1540-1

ISSUED TO: PILKINGTON NORTH AMERICA, INC

ISSUED DATE: July 13, 2020

LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For VOC Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
67 lbs	66 lbs	86 lbs	80 lbs

Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.



Samir Sheikh, Executive Director / APCO

Arnaud Marjollet

Arnaud Marjollet, Director of Permit Services



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT


HEALTHY AIR LIVING™

Emission Reduction Credit Certificate
N-1544-2

ISSUED TO: PILKINGTON NORTH AMERICA, INC

ISSUED DATE: July 13, 2020

LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For NOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
46,807 lbs	45,672 lbs	53,247 lbs	49,597 lbs

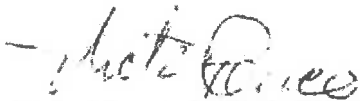
Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services





Emission Reduction Credit Certificate
N-1546-4

ISSUED TO: PILKINGTON NORTH AMERICA, INC

ISSUED DATE: July 13, 2020

LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For PM10 Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
9,502 lbs	9,319 lbs	9,354 lbs	10,675 lbs

Portion of above PM10 Reductions that is PM2.5:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
95.8%	95.8%	95.8%	95.8%
9,103 lbs	8,928 lbs	8,961 lbs	10,227 lbs

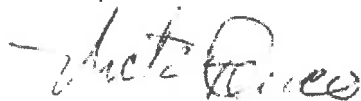
Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services





San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Emission Reduction Credit Certificate
N-1542-5

ISSUED TO: PILKINGTON NORTH AMERICA, INC

ISSUED DATE: July 13, 2020

LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For SOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
31,318 lbs	31,005 lbs	35,123 lbs	34,851 lbs

Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO

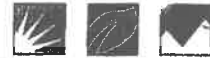
Arnaud Marjollet

Arnaud Marjollet, Director of Permit Services





San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



HEALTHY AIR LIVING™

AUG 15 2014

Kyle Sword
Pilkington North America, Inc.
500 E Louise Ave
Lathrop, CA 95330

Re: Notice of Preliminary Decision – Emission Reduction Credits
Facility Number: N-477
Project Number: N-1140725

Dear Mr. Sword:

Enclosed for your review and comment is the District's analysis of Pilkington North America, Inc.'s application for Emission Reduction Credits (ERCs) resulting from the shutdown of a glass furnace, at 500 E. Louise Ave in Lathrop, CA. The quantity of ERCs proposed for banking is 440,443 lb-NOx/yr, 179,547 lb-SOx/yr, 101,862 lb-PM10/yr, 34,719 lb-CO/yr, and 349 lb-VOC/yr.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice comment period, the District intends to issue the ERCs. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. James Harader of Permit Services at (209) 557- 6445.

Sincerely,

Arnaud Marjollet
Director of Permit Services

AM:JH

Enclosures

cc: Mike Tollstrup, CARB (w/enclosure) via email
cc: Gerardo C. Rios, EPA (w/enclosure) via email

Seyed Sadredin

Executive Director/Air Pollution Control Officer

Northern Region

4800 Enterprise Way
Modesto, CA 95358-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)

1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region

34948 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

San Joaquin Valley Air Pollution Control District

ERC Banking Application Review

Shutdown of Glass Furnace

Processing Engineer: James Harader
 Lead Engineer: Nick Peirce
 Date: April 10, 2014

Facility Name: Pilkington North America Inc.
 Mailing Address: 500 E Louise Ave
 Lathrop, CA 95330

Contact Person: Kyle Sword
 Telephone: (209) 858-6331

Application Received: February 28, 2014
 Deemed Complete: April 2, 2014

Project Number: N-1140725
 ERC Certification number: N-1198-1, -2, -3, -4 & -5

I. Proposal

Pilkington North America Inc., herein referred to as Pilkington, has submitted an application for Emission Reduction Credits (ERCs) banking for shutdown of a glass furnace (N-477-10-8). The quantity of bankable emission reductions for the shutdown of the glass furnace is summarized in the table below:

Pollutant	1 st Quarter (lb)	2 nd Quarter (lb)	3 rd Quarter (lb)	4 th Quarter (lb)	Total (lb)
NO _x	106,987	106,252	113,427	113,777	440,443
SO _x	43,130	42,817	46,936	46,664	179,547
PM ₁₀ ¹	25,255	25,072	25,107	26,428	101,862
CO	7,691	7,610	9,980	9,438	34,719
VOC	79	78	99	93	349

II. Applicable Rules

Rule 2201 New and Modified Stationary Source Review Rule (04/21/11)
 Rule 2301 Emission Reduction Credit Banking (01/19/12)

III. Location of Reduction:

The furnace was located at 500 E Louise Ave in Lathrop, CA.

¹ 95.8% of the PM₁₀ is PM_{2.5}, based on the PM_{2.5} and PM₁₀ fractions for uncontrolled furnaces per AP-42 Table 11.15-3.

IV. Method of Generating Reductions:

Glass production in the glass furnace ceased on January 29, 2014. The NOx CEMs recorded NOx emissions until February 13, 2014, signaling that the cool down of the glass furnace was complete. The facility surrendered the permit to operate to the District on February 25, 2014.

Equipment Description:

N-477-10-8: 200 MMBTU/HR GLASS MELTING FURNACE WITH ECLIPSE COMBUSTION MODEL WRSP10:XX LOW NOX BURNERS AND 3R NOX EMISSIONS CONTROL SYSTEM

V. Calculations

A. Assumption:

- A 750 ton/day furnace fill rate is equivalent to approximately 630 tons of glass pulled (District Project N-1130822)
- 95% of the PM is PM10 (AP-42 Table 11.15-3).
- The results of all Historical Actual Emission (HAE) and Actual Emission Reduction (AER) calculations are rounded to the nearest whole number.

B. Emission factors:

NOx Emission Factor

The following table summarizes the emission factors available for NOx emissions.

Continuous Emissions Monitoring Data	Permit N-477-10-8 Emission Limits	District Rule 4354 Tier 4 NOx Limit
NOx CEMs Data Provided by Applicant (greater than 2.9 lb/ton for each month)	241.5 lb/hr on a block 24-hour average 4,140 lb/day on a rolling 30-day average	Facility is Subject to Early Enhanced Option of Rule 4354, which requires the following: 3.4 lb/ton (block 24-hr average) 2.9 lb/ton (rolling 30-day average)

The District Rule 4354 early enhanced option requirement of 2.9 lb-NOx/ton (rolling 30-day average) results in the lowest emission rate for NOx during the baseline period. Therefore, the 2.9 lb/ton emission factor will be used to calculate the quantity of NOx emissions available for banking.

SOx Emission Factor

Permit N-477-10-8 Emission Limit	District Rule 4354 SOx Limit	Source Test Results for SOx	
88.0 lb/hr	1.7 lb/ton (block 24-hr average) 1.2 lb/ton (rolling 30-day average)	12/15/10	2.02 lb/ton ²
		11/17/11	1.86 lb/ton ³
		12/4/12	1.14 lb/ton ⁴

During some months in the baseline period, the 1.2 lb-SOx/ton limit is the lowest emission factor, while during other months in the baseline period, the source tested SOx emission rate is the lower value. The lower of these two applicable emission rates, for the month being evaluated, will be used to calculate the quantity of SOx emissions available for banking.

² A source test result of 37.17 lb-SOx/hr was measured at a furnace fill rate of 524 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 37.17 \text{ lb-SOx/hr} + (524 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 2.02 \text{ lb-SOx/ton glass}$$

³ A source test result of 39.19 lb-SOx/hr was measured at a furnace fill rate of 603 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 39.19 \text{ lb-SOx/hr} + (603 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 1.86 \text{ lb-SOx/ton glass}$$

⁴ A source test result of 24.02 lb-SOx/hr was measured at a furnace fill rate of 603.5 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 24.02 \text{ lb-SOx/hr} + (603.5 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 1.14 \text{ lb-SOx/ton glass}$$

PM10 Emission Factor

Permit N-477-10-8 Emission Limit	District Rule 4354 PM10 Limit	Source Test Results for PM10	
30.0 lb/hr	0.7 lb/ton (block 24-hr average)	12/15/10	0.58 lb/ton ⁵
		11/17/11	0.70 lb/ton ⁶
		12/4/12	0.67 lb/ton ⁷

The source test emission rates result in the lowest emission rate for PM10 during the baseline period. Therefore, the source test emission factors will be used to calculate the quantity of PM10 emissions available for banking.

⁵ A source test result of 11.24 lb-PM/hr was measured at a furnace fill rate of 524 tons/day. A PM10 fraction of 0.95 lb-PM10/lb-PM will be applied to determine the PM10 emissions. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 11.24 \text{ lb-PM/hr} + (524 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day}) \times 0.95 \text{ lb-PM10/lb-PM}$$

$$EF = 0.58 \text{ lb-PM10/ton glass}$$

⁶ A source test result of 15.55 lb-PM/hr was measured at a furnace fill rate of 603 tons/day. A PM10 fraction of 0.95 lb-PM10/lb-PM will be applied to determine the PM10 emissions. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 15.55 \text{ lb-PM/hr} + (603 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day}) \times 0.95 \text{ lb-PM10/lb-PM}$$

$$EF = 0.70 \text{ lb-PM10/ton glass}$$

⁷ A source test result of 14.97 lb-PM/hr was measured at a furnace fill rate of 603.5 tons/day. A PM10 fraction of 0.95 lb-PM10/lb-PM will be applied to determine the PM10 emissions. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 14.97 \text{ lb-PM/hr} + (603.5 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day}) \times 0.95 \text{ lb-PM10/lb-PM}$$

$$EF = 0.67 \text{ lb-PM10/ton glass}$$

CO Emission Factor

Permit N-477-10-8 Emission Limit	District Rule 4354 CO Limit	Source Test Results for CO	
567.0 lb/day	For an oxygen assisted unit 0.9 lb/ton	12/15/10	0.25 lb/ton ⁸
		11/17/11	0.26 lb/ton ⁹
		12/4/12	0.16 lb/ton ¹⁰

The source test emission rates result in the lowest emission rate for CO during the baseline period. Therefore, the source test emission factors will be used to calculate the quantity of CO emissions available for banking.

⁸ A source test result of 4.54 lb-CO/hr was measured at a furnace fill rate of 524 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 4.54 \text{ lb-CO/hr} + (524 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 0.26 \text{ lb-CO/ton glass}$$

⁹ A source test result of 5.43 lb-CO/hr was measured at a furnace fill rate of 603 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 5.43 \text{ lb-CO/hr} + (603 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 0.26 \text{ lb-CO/ton glass}$$

¹⁰ A source test result of 3.33 lb-CO/hr was measured at a furnace fill rate of 603.5 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 3.33 \text{ lb-CO/hr} + (603.5 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 0.16 \text{ lb-CO/ton glass}$$

VOC Emission Factor

Permit N-477-10-8 Emission Limit	District Rule 4354 VOC Limit	Source Test Results for VOC	
21.0 lb/day	For an oxygen assisted unit 0.10 lb/ton	12/15/10	0.0027 lb/ton ¹¹
		11/17/11	0.0024 lb/ton ¹²
		12/4/12	0.0019 lb/ton ¹³

The source test emission rates result in the lowest emission rate for VOC during the baseline period. Therefore, the source test emission factors will be used to calculate the quantity of VOC emissions available for banking.

C. Baseline Period Determination:

Section 3.8 of District Rule 2201 defines the baseline period as "two consecutive years of operation immediately prior to the submission of the complete application" or "another time period of at least two consecutive years within the five years immediately prior to the submission of the complete application if it is more representative of normal source operation".

¹¹ A source test result of 0.05 lb-VOC/hr was measured at a furnace fill rate of 524 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 0.05 \text{ lb-VOC/hr} + (524 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 0.0027 \text{ lb-VOC/ton glass}$$

¹² A source test result of 0.05 lb-VOC/hr was measured at a furnace fill rate of 603 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 0.05 \text{ lb-VOC/hr} + (603 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 0.0024 \text{ lb-VOC/ton glass}$$

¹³ A source test result of 0.04 lb-VOC/hr was measured at a furnace fill rate of 603.5 tons/day. The equivalent lb/ton of glass pulled emission factor is:

$$EF = 0.04 \text{ lb-VOC/hr} + (603.5 \text{ tons fill/day} \times 630 \text{ tons glass/750 tons fill} + 24 \text{ hr/day})$$

$$EF = 0.0019 \text{ lb-VOC/ton glass}$$

In order to determine the period that is most representative of normal source operation, the annual average glass production was determined for the five year period immediately preceding the ERC application. Next, the glass production from each two-consecutive-year (24-month) period starting with the month in which the application was received was determined and compared to the five-year average glass production value. This comparison is repeated for each two-consecutive-year period until the two-consecutive-year period with average glass production closest to the five year average glass production is found. The two consecutive year period with average glass production closest to the five year average glass production is considered to be most representative of normal source operation.

Using the above methodology, the period with the most representative glass production rate was Quarter 3, 2011 through Quarter 2, 2013 (see Appendix II of this document). Therefore, July 2011 through June 2013 is considered to be most representative of normal source operation and will be used as the baseline period.

D. Historical Actual Emissions (HAE)

Historical Actual Emissions (HAEs) are emissions that actually occurred during the baseline period, after discounting for

1. Any emission reductions required or encumbered by any laws, rules, regulations, agreements, orders, or permits; and
2. Any emissions reductions attributed to a control measure noticed for workshop, or proposed or contained in a State Implementation Plan, and
3. Any emission reductions proposed in the District air quality plan for attaining the annual reductions required by the California Clean Air Act, and
4. Any Actual Emissions in excess of those required or encumbered by any laws, rules, regulations, orders, or permits.

The average annual historical actual emissions from the glass furnace are listed in the following table (see Appendix III of this document for detailed calculations):

Pollutant	1 st Quarter (lb)	2 nd Quarter (lb)	3 rd Quarter (lb)	4 th Quarter (lb)
NO _x	118,874	118,058	126,030	126,419
SO _x	47,922	47,575	52,151	51,849
PM ₁₀	28,061	27,858	27,897	29,364
CO	8,546	8,456	11,089	10,487
VOC	88	87	110	103

E. Actual Emissions Reductions

Per District Rule 2201, section 4.12, Actual Emissions Reductions (AER) shall be calculated, on a pollutant-by-pollutant basis, as follows:

$$\text{AER} = \text{HAE} - \text{PE2}$$

Where:

HAE = Historic Actual Emissions
PE2 = Post Project Potential to Emit

Since the unit has been shut down, PE2 is equal to zero. Therefore, AER is equal to HAE.

F. Air Quality Improvement Deduction

Per District Rule 2201, section 4.12.1, prior to banking, AER shall be discounted by 10% for Air Quality Improvement Deduction. Therefore, the Air Quality Improvement Deduction for emissions from the permit unit is summarized in the following table:

Pollutant	1 st Quarter (lb)	2 nd Quarter (lb)	3 rd Quarter (lb)	4 th Quarter (lb)
NO _x	11,887	11,806	12,603	12,642
SO _x	4,792	4,758	5,215	5,185
PM ₁₀	2,806	2,786	2,790	2,936
CO	855	846	1,109	1,049
VOC	9	9	11	10

G. Bankable Emissions Reductions

The bankable emissions reductions are determined by subtraction of the air quality improvement deduction from the Actual Emissions Reductions. The bankable ERC of this unit is summarized in the table below:

Pollutant	1 st Quarter (lb)	2 nd Quarter (lb)	3 rd Quarter (lb)	4 th Quarter (lb)
NO _x	106,987	106,252	113,427	113,777
SO _x	43,130	42,817	46,936	46,664
PM ₁₀	25,255	25,072	25,107	26,428
CO	7,691	7,610	9,980	9,438
VOC	79	78	99	93

VI. Compliance

To comply with the definition of Actual Emissions Reductions (Rule 2201, Section 3.2.1), the reduction must be:

A. Real

The emissions reductions are real since the reductions were generated by permanent shutdown of the entire glass manufacturing facility.

B. Enforceable

The reductions are enforceable since the permit for the glass furnace has been surrendered to the District. Operating the equipment without permits would result in enforcement action being taken.

C. Quantifiable

The reductions are quantifiable since the reductions were calculated utilizing District-approved emission factors, and the actual baseline period glass production.

D. Permanent

The reductions are considered to permanent since the glass furnace has been permanently shut down and the Permit to Operate has been surrendered to the District. Operation of the equipment without permits would result in enforcement action. Moreover, the glass production from this facility will not be shifted to other facilities in the District.

E. Surplus

This section will contain an explanation of what actions were taken to ensure that all emission reductions were surplus.

The following Regulations apply to Glass Melting Furnaces:

SJVAPCD Rule 4354: Glass Melting Furnaces (5/19/11)

The District Rule 4354 early enhanced emission requirements were shown earlier in the emission factor section of this evaluation. The Historical Actual Emissions were calculated such a manner that they are fully surplus of District Rule 4354 requirements.

BAAQMD Regulation 9, Rule 12: Nitrogen Oxides from Glass Melting Furnaces (1/19/94)

This rule limits NOx emissions from glass furnaces to 5.5 lb-NOx/ton, on a 3-hour average. The historical actual emissions were based on an emission factor of 2.9 lb-NOx/ton on a 30-day rolling average. Therefore, the Historical Actual Emissions were calculated in such a manner that they are fully surplus from the requirements of this Rule.

SCAQMD Rule 1117: Emissions of Oxides of Nitrogen from Glass Melting Furnaces (1/6/84)

This rule limits NOx emissions from glass furnaces to 4.0 lb-NOx/ton, on a 24-hr average. The historical actual emissions were based on an emission factor of 2.9 lb-NOx/ton on a 30-day rolling average. Therefore, the Historical Actual Emissions were calculated in such a manner that they are fully surplus from the requirements of this Rule.

40 CFR 60 Subpart CC: Standards of Performance for Glass Manufacturing Plants

The glass furnace was constructed prior to June 15, 1979 and was never modified or reconstructed. Therefore, Subpart CC requirements don't apply to the furnace and the Historical Actual Emissions are surplus of this regulation.

40 CFR 61 Subpart N: National Emission Standard for Inorganic Arsenic Emissions from Glass Manufacturing Plants

The furnace was prohibited by a permit condition from using arsenic as a raw material; therefore, Subpart N requirements did not apply to this furnace and the Historical Actual Emissions are surplus of this regulation.

40 CFR 63 Subpart SSSSSS: National Emission Standard for Hazardous Air Pollutants from Glass Manufacturing Area Sources

The furnace did not utilize any glass manufacturing metal HAPs. Therefore, Subpart SSSSSS requirements did not apply to this furnace and the Historical Actual Emissions are surplus of this regulation.

The Historical Actual Emissions are determined to be Surplus.

F. Not used for the approval of an Authority to Construct or as Offsets

The ERCs generated by permanent shutdown the entire facility were not used in the approval of an Authority to Construct or as offsets for any projects.

G. Timely Submittal

Pursuant to District Rule 2301, Section 4.2, in order to deem emissions reductions eligible for banking, an application for ERC has been filed no later than 180 days after the emissions reductions occurred.

Emissions from the glass furnace ceased on February 13, 2014. The emissions reduction banking application was received on February 28, 2014. Therefore, the application was received within 180 days of the date the reductions occurred. The ERC application was filed in a timely manner.

VII. Recommendation

Pending a successful public noticing period, issue Emission Reduction Credit Certificates to Pilkington for NO_x, SO_x, PM₁₀, CO, and VOC in the following amounts:

Pollutant	1 st Quarter (lb)	2 nd Quarter (lb)	3 rd Quarter (lb)	4 th Quarter (lb)	Total (lb)
NO _x	106,987	106,252	113,427	113,777	440,443
SO _x	43,130	42,817	46,936	46,664	179,547
PM ₁₀	25,255	25,072	25,107	26,428	101,862
CO	7,691	7,610	9,980	9,438	34,719
VOC	79	78	99	93	349

Appendices

- Appendix I Permit to Operate N-477-10-8
- Appendix II Baseline Period Determination
- Appendix III Historical Actual Emissions Calculations
- Appendix IV Draft Emissions Reduction Credit Certificates

Appendix I

**Permit to Operate
N-477-10-8**

INSPECTION
EXPIRATION DATE: 08/31/2016

LEGAL OWNER OR OPERATOR: PILKINGTON NORTH AMERICA, INC
MAILING ADDRESS: 500 E LOUISE AVE
LATHROP, CA 95330

LOCATION: 500 E LOUISE AVE
LATHROP, CA 95330

INSPECT PROGRAM PARTICIPANT: NO

EQUIPMENT DESCRIPTION:
200 MMBTU/HR GLASS MELTING FURNACE WITH ECLIPSE COMBUSTION MODEL WRSP10.XX LOW NOX BURNERS AND 3R NOX EMISSIONS CONTROL SYSTEM

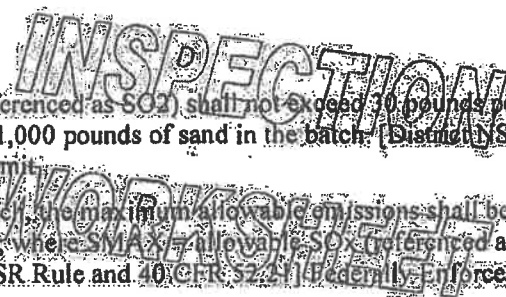
CONDITIONS

1. The particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101, by using EPA method 9. If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and San Joaquin County Rule 401] Federally Enforceable Through Title V Permit
3. The Pilkington 3R NOx control system shall be operated with a minimum control efficiency of 31.5% (on a 24-hour average) at all times, except for a period of time necessary to establish a baseline NOx emission rate for the purpose of determining the NOx control equipment efficiency. Uncontrolled NOx emissions may be generated up to 16 hours per month (maximum of 4 hours per 24 hour period) when establishing the baseline NOx emissions rate. [District NSR Rule] Federally Enforceable Through Title V Permit
4. The furnace fill rate shall not exceed 750 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. When firing on LPG, the daily fuel usage rate shall not exceed 64,066 gallons. [District NSR Rule] Federally Enforceable Through Title V Permit
6. When firing on natural gas, the daily fuel usage rate shall not exceed 5,942,875 cubic feet. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The glass pull rate shall not exceed 630 tons per day. [District Rules 4354, 6.1] Federally Enforceable Through Title V Permit
8. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR 61 Subpart N] Federally Enforceable Through Title V Permit
9. All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Prevention of Significant Deterioration permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions. [40 CFR 52.21] Federally Enforceable Through Title V Permit
10. The exhaust stack shall be equipped with a continuous emissions monitoring system (CEMS) for NOx, O2 and stack gas flow rate, and a continuous opacity monitoring system (COMS). Both the CEMS and COMS shall meet the requirements of 40 CFR parts 60 and 75 and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District Rule 1080 and 40 CFR 52.21] Federally Enforceable Through Title V Permit
11. The operator shall report any violation of NOx emission standards indicated by the NOx CEMS or any violation of opacity standards as indicated by the COMS to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit

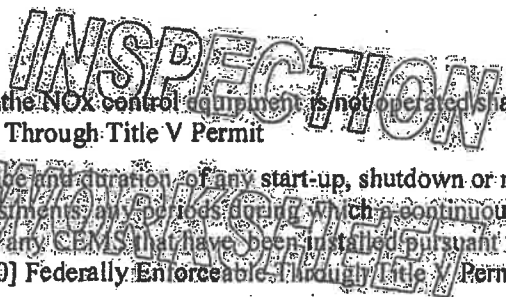
CONDITIONS FOR PERMIT N-477-10-8

INSPECTION
WORKSHEET

12. The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS or COMS. The operator shall inform the APCO of the intent to shut down the CEMS or COMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit.
13. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit.
14. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit.
15. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit.
16. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit.
17. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit.
18. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (CGAs and RATAs) and if applicable 40 CFR Part 75, Appendix B (linearity and RATAs) at least once every four calendar quarters and annually within a 30 days of the anniversary date of the initial test. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit.
19. NO_x emissions (referenced as NO₂) shall not exceed 241.5 pounds per hour on a block 24-hour average. [District Rules 2201 and 4354]
20. A block 24-hour average is defined as the arithmetic average of hourly NO_x emission rates of a furnace as measured over 24 one-hour periods, daily, from 12:00 AM to 11:59 PM, excluding periods of system calibration. [District Rule 4354]
21. NO_x emissions (referenced as NO₂) shall not exceed 4,410 pounds per day on a rolling 30-day average. [District Rules 2201 and 4354]
22. A rolling 30-day average is defined as the arithmetic average of the daily emission rates of a furnace over a contiguous 30-day period, excluding periods of system calibration. [District Rule 4354]
23. NO_x emissions (referenced as NO₂) shall not exceed 1,533,000 pounds during any one calendar year. [District Rule 2201]
24. CO emissions shall not exceed 567.0 pounds during any one day. [District Rule 2201]
25. VOC emissions shall not exceed 21.0 pounds during any one day. [District Rule 2201]
26. Particulate Matter emissions shall not exceed 30.0 pounds per hour. [District Rule 2201 and 40 CFR 52.21] Federally Enforceable Through Title V Permit.
27. SO_x emissions (referenced as SO₂) shall not exceed 88.0 pounds per hour. [District NSR Rule and 40 CFR 52.21] Federally Enforceable Through Title V Permit.
28. Saltcake or Gypsum may be used as a batch constituent as a source of sulfate. [District NSR Rule] Federally Enforceable Through Title V Permit.



29. When using gypsum, the emissions of oxides of sulfur (referenced as SO₂) shall not exceed 30 pounds per hour when the gypsum usage is less than or equal to 10.7 pounds per 1,000 pounds of sand in the batch. [District NSR Rule and 40 CFR 52.21] Federally Enforceable Through Title V Permit
30. If gypsum usage exceeds 10.7 lb/1000 lb of sand in the batch, the maximum allowable emissions shall be determined by following equation: $S_{MAX} = (6.3 * GYPRATE) - 39.5$; where S_{MAX} = allowable SO_x (referenced as SO₂) and GYPRATE = gypsum usage (lb/1000 lb sand). [District NSR Rule and 40 CFR 52.21] Federally Enforceable Through Title V Permit
31. When using saltcake, the emissions of oxides of sulfur (referenced as SO₂) shall not exceed 30 pounds per hour when the saltcake usage is less than or equal to 8 pounds per 1000 pounds of sand in the batch. [District NSR Rule] Federally Enforceable Through Title V Permit
32. If saltcake usage exceeds 8 lb/1000 lb of sand in the batch, the maximum allowable emissions shall be determined by the following equation: $S_{MAX} = (8.5 * SLTRATE) - 39.5$; where S_{MAX} = allowable SO_x (referenced as SO₂) and SLTRATE = saltcake usage (lb/1000 lb sand). [District NSR Rule] Federally Enforceable Through Title V Permit
33. The maximum allowable emission rate for Particulate Matter shall be determined by the following equations: $E = 3.59 * P^{0.62}$ for $P < 30$ tons/hour or $17.31 * P^{0.16}$ for $P > 30$ tons/hour. [District Rule 4202] Federally Enforceable Through Title V Permit
34. The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0.2% by volume as measured on a dry basis over a 15 minute period. [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
35. Source testing to measure NO_x, CO, VOC, PM, and SO₂ emissions shall be conducted at least once every calendar year under all applicable permitted operating scenarios (low gypsum, high gypsum, low salt cake, high salt cake) and during periods of high furnace fill rate. [District Rules 1081, 2520 §9.3.2 and 4354]
36. Source test conditions shall be representative of normal operations, but not less than 60% of either the maximum pull rate or furnace's maximum fuel use capacity. [District Rule 4354]
37. Source testing prior to or after the anniversary of the previous test is allowed as long as the proposed source test date falls within 6 to 18 month period from the anniversary date of the previous source test. [District Rule 4354]
38. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
39. For NO_x, CO and VOC source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the furnace, even if the averaged emissions of all three test runs is less than the applicable limit. [District Rule 4354]
40. Source testing to measure NO_x emissions shall be conducted using EPA Method 7E, EPA Method 19, or CARB Method 100. Other test methods may be substituted as approved by the District and EPA. [District Rules 1081 and 4354 §6.5.1] Federally Enforceable Through Title V Permit
41. Source testing to measure CO emissions shall be conducted using EPA Method 10, or CARB Method 100. Other test method may be substituted as approved by the District and EPA. [District Rule 4354]
42. Source testing to measure VOC emissions shall be conducted using EPA Method 25 A, EPA Method 18 or ARB Method 422. Other test method may be substituted as approved by the District and EPA. [District Rule 4354]
43. Source testing to measure Particulate Matter and SO_x emissions shall be conducted using CARB combined Methods 5/202 and 6C. Other test methods may be substituted as approved by the District and EPA. [District Rule 1081 and 40 CFR 52.21] Federally Enforceable Through Title V Permit
44. Stack gas oxygen, excess air, and dry molecular weight shall be determined using EPA Method 3 or 3A, or CARB Method 100. Other test methods may be substituted as approved by the District and EPA. [District Rules 1081 and 4354 §6.5.1] Federally Enforceable Through Title V Permit
45. Stack gas velocity and volumetric flow rate shall be determined using EPA Method 2. Other test methods may be substituted as approved by the District and EPA. [District Rules 1081 and 4354 §6.5.1] Federally Enforceable Through Title V Permit



46. A daily log showing the date and duration of periods when the NOx control equipment is not operated shall be kept on site at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
47. Records shall be maintained and shall include the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEMS that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080] Federally Enforceable Through Title V Permit
48. The operator shall maintain an operating log that includes on a daily basis; the hours of operation of the furnace, type and quantity of fuel used in the furnace, quantity of glass pulled, and NOx emission rates in lb/ton of glass pulled. This information shall be on-site during normal business hours and submitted to the APCO, ARB, or EPA upon request. [District Rule 4354]
49. The permittee shall maintain records of the following: a.) type of glass produced; b.) NOx emissions, in pounds per hour, on a block 24-hour average; c.) SOx and PM emissions, in pounds per hour, based on a daily average; d.) CO and VOC emissions, in pounds per day; e.) NOx emissions, in pounds per day, on a rolling 30-day average; f.) cumulative NOx emissions, in pounds per calendar year, updated at least monthly. [District Rules 2201 and 4354]
50. When applicable, daily records of natural gas or LPG usage shall be maintained. [District Rule 2520 §9.3.2] Federally Enforceable Through Title V Permit
51. Daily records of furnace fill rate shall be maintained. [District Rule 2520 §9.3.2] Federally Enforceable Through Title V Permit
52. Monthly records of salt cake and gypsum content per 1,000 lb of sand in each batch shall be maintained. [District Rule 2520 §9.3.2] Federally Enforceable Through Title V Permit
53. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR 52.21] Federally Enforceable Through Title V Permit
54. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, San Joaquin County Rule 404, District Rule 4202 and San Joaquin County Rule 405. A permit shield is granted from these requirements. [District Rule 2520 §13.2] Federally Enforceable Through Title V Permit
55. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4354. A permit shield is granted from these requirements. [District Rule 2520 §13.2] Federally Enforceable Through Title V Permit
56. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520 §13.2] Federally Enforceable Through Title V Permit
57. The requirements of District Rule 4301 and San Joaquin County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520 §13.2] Federally Enforceable Through Title V Permit
58. The requirements of 40 CFR 60, Subpart CC were determined to not apply to this unit because the unit was constructed prior to the effective date in the regulation and not been modified (according to the definition of "modified" in the regulation). A permit shield is granted from these requirements. [District Rule 2520 §13.2] Federally Enforceable Through Title V Permit
59. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520 §13.2] Federally Enforceable Through Title V Permit

CONDITIONS FOR PERMIT N-477-10-8

60. Permittee shall submit an Authority to Construct application for compliance with early enhanced option NOx limits by June 1, 2012, and be in full compliance with enhanced option NOx limits by January 1, 2014. District Rule 4354, 7.2.1] Federally Enforceable Through Title V Permit.

**INSPECTION
WORKSHEET**

Appendix II

Baseline Period Determination

The following table shows the data used to determine the baseline period for the glass melting furnace. The end of the 24-month period with the average annual glass production baseline that is most representative is in bold font and the baseline period is highlighted in the table:

Month	Tons of Glass Drawn	Average Annual Tons of Glass Drawn for 24-month period	Difference Between 5-year Annual Average and 24-Month Period Annual Average
Quarter 2 2009	38,358	--	--
Quarter 3 2009	39,489	--	--
Quarter 4 2009	44,685	--	--
Quarter 1 2010	42,965	--	--
Quarter 2 2010	45,235	--	--
Quarter 3 2010	44,792	--	--
Quarter 4 2010	42,810	--	--
Quarter 1 2011	42,113	170,224	5,018
Quarter 2 2011	45,246	173,668	8,462
Quarter 3 2011	42,075	174,961	9,755
Quarter 4 2011	42,915	174,076	8,870
Quarter 1 2012	39,738	172,462	7,256
Quarter 2 2012	38,861	169,275	4,069
Quarter 3 2012	44,842	169,300	4,094
Quarter 4 2012	44,270	170,030	4,824
Quarter 1 2013	42,244	170,096	4,890
Quarter 2 2013	42,558	168,752	3,546
Quarter 3 2013	45,424	170,426	5,220
Quarter 4 2013	42,569	170,253	5,047
Quarter 1 2014	14,841	157,805	-7,401
Average Annual Glass Production	165,206		

Appendix III

Historical Actual Emissions Calculations

NOx Emission Calculations

Month	Tons of Glass Drawn	NOx Emission Factor (lb/ton)	PE NOx (lb)
Jul-11	14,576	2.9	42,270
Aug-11	14,138	2.9	41,000
Sep-11	13,361	2.9	38,747
Oct-11	15,340	2.9	44,486
Nov-11	14,490	2.9	42,021
Dec-11	13,085	2.9	37,947
Jan-12	13,200	2.9	38,280
Feb-12	11,638	2.9	33,750
Mar-12	14,900	2.9	43,210
Apr-12	11,869	2.9	34,420
May-12	13,394	2.9	38,843
Jun-12	13,598	2.9	39,434
Jul-12	15,578	2.9	45,176
Aug-12	15,064	2.9	43,686
Sep-12	14,200	2.9	41,180
Oct-12	14,071	2.9	40,806
Nov-12	14,796	2.9	42,908
Dec-12	15,403	2.9	44,669
Jan-13	14,353	2.9	41,624
Feb-13	12,680	2.9	36,772
Mar-13	15,211	2.9	44,112
Apr-13	14,551	2.9	42,198
May-13	14,826	2.9	42,995
Jun-13	13,181	2.9	38,225

Quarter	Average NOx (lb)
1 st Quarter	118,874
2 nd Quarter	118,058
3 rd Quarter	126,030
4 th Quarter	126,419

SOx Emission Calculations

Month	Tons of Glass Drawn	SOx Emission Factor (lb/ton)	PF SOx (lb)
Jul-11	14,576	1.2	17,491
Aug-11	14,138	1.2	16,966
Sep-11	13,361	1.2	16,033
Oct-11	15,340	1.2	18,408
Nov-11	14,490	1.2	17,388
Dec-11	13,085	1.2	15,702
Jan-12	13,200	1.2	15,840
Feb-12	11,638	1.2	13,966
Mar-12	14,900	1.2	17,880
Apr-12	11,869	1.2	14,243
May-12	13,394	1.2	16,073
Jun-12	13,598	1.2	16,318
Jul-12	15,578	1.2	18,694
Aug-12	15,064	1.2	18,077
Sep-12	14,200	1.2	17,040
Oct-12	14,071	1.2	16,885
Nov-12	14,796	1.2	17,755
Dec-12	15,403	1.14	17,559
Jan-13	14,353	1.14	16,362
Feb-13	12,680	1.14	14,455
Mar-13	15,211	1.14	17,341
Apr-13	14,551	1.14	16,588
May-13	14,826	1.14	16,902
Jun-13	13,181	1.14	15,026

Quarter	Average SOx (lb)
1 st Quarter	47,922
2 nd Quarter	47,575
3 rd Quarter	52,151
4 th Quarter	51,849

PM10 Emission Calculations

Month	Tons of Glass Drawn	PM10 Emission Factor (lb/ton)	PE PM10 (lb)
Jul-11	14,576	0.58	8,454
Aug-11	14,138	0.58	8,200
Sep-11	13,361	0.58	7,749
Oct-11	15,340	0.58	8,897
Nov-11	14,490	0.70	10,143
Dec-11	13,085	0.70	9,160
Jan-12	13,200	0.70	9,240
Feb-12	11,638	0.70	8,147
Mar-12	14,900	0.70	10,430
Apr-12	11,869	0.70	8,308
May-12	13,394	0.70	9,376
Jun-12	13,598	0.70	9,519
Jul-12	15,578	0.70	10,905
Aug-12	15,064	0.70	10,545
Sep-12	14,200	0.70	9,940
Oct-12	14,071	0.70	9,850
Nov-12	14,796	0.70	10,357
Dec-12	15,403	0.67	10,320
Jan-13	14,353	0.67	9,617
Feb-13	12,680	0.67	8,496
Mar-13	15,211	0.67	10,191
Apr-13	14,551	0.67	9,749
May-13	14,826	0.67	9,933
Jun-13	13,181	0.67	8,831

Quarter	Average PM10 (lb)
1 st Quarter	28,061
2 nd Quarter	27,858
3 rd Quarter	27,897
4 th Quarter	29,364

CO Emission Calculations

Month	Tons of Glass Drawn	CO Emission Factor (lb/ton)	PE CO (lb)
Jul-11	14,576	0.25	3,644
Aug-11	14,138	0.25	3,535
Sep-11	13,361	0.25	3,340
Oct-11	15,340	0.25	3,835
Nov-11	14,490	0.26	3,767
Dec-11	13,085	0.26	3,402
Jan-12	13,200	0.26	3,432
Feb-12	11,638	0.26	3,026
Mar-12	14,900	0.26	3,874
Apr-12	11,869	0.26	3,086
May-12	13,394	0.26	3,482
Jun-12	13,598	0.26	3,535
Jul-12	15,578	0.26	4,050
Aug-12	15,064	0.26	3,917
Sep-12	14,200	0.26	3,692
Oct-12	14,071	0.26	3,658
Nov-12	14,796	0.26	3,847
Dec-12	15,403	0.16	2,464
Jan-13	14,353	0.16	2,296
Feb-13	12,680	0.16	2,029
Mar-13	15,211	0.16	2,434
Apr-13	14,551	0.16	2,328
May-13	14,826	0.16	2,372
Jun-13	13,181	0.16	2,109

Quarter	Average CO (lb)
1 st Quarter	8,546
2 nd Quarter	8,456
3 rd Quarter	11,089
4 th Quarter	10,487

VOC Emission Calculations

Month	Tons of Glass Drawn	VOC Emission Factor (lb/ton)	PE VOC (lb)
Jul-11	14,576	0.0027	39
Aug-11	14,138	0.0027	38
Sep-11	13,361	0.0027	36
Oct-11	15,340	0.0027	41
Nov-11	14,490	0.0024	35
Dec-11	13,085	0.0024	31
Jan-12	13,200	0.0024	32
Feb-12	11,638	0.0024	28
Mar-12	14,900	0.0024	36
Apr-12	11,869	0.0024	28
May-12	13,394	0.0024	32
Jun-12	13,598	0.0024	33
Jul-12	15,578	0.0024	37
Aug-12	15,064	0.0024	36
Sep-12	14,200	0.0024	34
Oct-12	14,071	0.0024	34
Nov-12	14,796	0.0024	36
Dec-12	15,403	0.0019	29
Jan-13	14,353	0.0019	27
Feb-13	12,680	0.0019	24
Mar-13	15,211	0.0019	29
Apr-13	14,551	0.0019	28
May-13	14,826	0.0019	28
Jun-13	13,181	0.0019	25

Quarter	Average VOC (lb)
1 st Quarter	88
2 nd Quarter	87
3 rd Quarter	110
4 th Quarter	103

Appendix IV

Draft Emissions Reductions Credit Certificates

San Joaquin Valley
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718

Emission Reduction Credit Certificate

DRAFT
N-1198-1

ISSUED TO: PILKINGTON NORTH AMERICA, INC

ISSUED DATE: <DRAFT>

LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
79 lbs	78 lbs	99 lbs	93 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Mahollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95358-8718

Emission Reduction Credit Certificate

DRAFT
N-198-2

ISSUED TO: PILKINGTON NORTH AMERICA, INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For NOx Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
106,987 lbs	106,252 lbs	113,427 lbs	113,777 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director, APCO

DRAFT
Arnaud Majorlet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95358-8718

Emission Reduction Credit Certificate

DRAFT
N-198-3

ISSUED TO: PILKINGTON NORTH AMERICA, INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For CO Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
7,691 lbs	7,610 lbs	9,980 lbs	9,438 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of glass furnace.

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director, APCO

DRAFT
Arnaud Manjoret, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718

Emission Reduction Credit Certificate

DRAFT
N-1198-4

ISSUED TO: PILKINGTON NORTH AMERICA, INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For PM10 Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
25,255 lbs	25,072 lbs	25,107 lbs	26,428 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director, APCO

DRAFT
Arnaud Manojlet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718

Emission Reduction Credit Certificate

DRAFT
N-1198-5

ISSUED TO: PILKINGTON NORTH AMERICA, INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: 500 E LOUISE AVE
LATHROP, CA 95330

For SOx Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
43,130 lbs	42,817 lbs	46,936 lbs	46,664 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of glass furnace

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Manollet, Director of Permit Services

Certificate Number: 0113

Effective Date: 7/27/2020

Expiration Date: n/a

Certificate of ERC Ownership

This certifies that

CEMEX Construction Materials Pacific, LLC

owns the following Class 'A' Emission Reduction Credits:

0 Pounds per Year CO

220 Pounds per Year NOx

12 Pounds per Year PM10

50 Pounds per Year SOx

50 Pounds per Year VOC

This Certificate of Ownership is issued pursuant to Regulation XIV of the Mojave Desert Air Quality Management District.

See Reverse for Terms and Conditions.

Method of Reduction:
Transfer





Brad Poiriez
Air Pollution Control Officer

7/27/2020
Date

TERMS AND CONDITIONS

1. This Certificate of Ownership is issued by the Mojave Desert Air Quality Management District pursuant to District Regulation XIV.
2. Name and address of the ERC owner(s) is as follows:

CEMEX Construction Materials Pacific, LLC
16888 North E Street
Victorville, CA 92394
3. This ERC Certificate does not constitute an instrument, security or any other form of property.
4. Ownership of the ERC is held in the same manner as the owner(s) hold title to the source of the ERC. The owner(s) of this ERC as listed herein has the exclusive right to use or authorize the use, transfer, conveyance or otherwise encumber these ERCs subject only to applicable provisions of State and Federal Law or Regulation, and/or District Rules and Regulations. ERCs may be transferred in whole or in part by written conveyance or by operation of law from one person to another in accordance with the provisions contained in District Rule 1402.
5. A voluntary transfer of ownership in whole or in part shall be performed according to the procedures specified in District Rule 1402. Upon transfer of ownership in whole or in part, this Certificate shall be surrendered to the Mojave Desert Air Quality Management District.
6. Any encumbrances against ERCs shall be promptly reported to the Mojave Desert Air Quality Management District Air Pollution Control Officer who may require the surrender of the Certificate pursuant to provisions specified in District Rule 1402.

For District Use Only

Appendix C:
HARP Prioritization Scores

HARP Facility Prioritization Report

HARP EIM Version: 2.1.1

Calculated for the nearest residential receptor located at 110 meters.

Reporting Year: 2020

Project Path: C:\Users\guys.MDAIRQ\Desktop_2019_2020 Permitting Project HARP Files

Project Database: C:\Users\guys.MDAIRQ\Desktop_2019_2020 Permitting Project HARP Files\GS_PERMITTING_PROJECTS_2020.mdb

CEIDARS Utility Database: C:\HARP2\Tables\CEIDARSTables092019.mdb

HARP Health Talbe: HEALTH201909

Sorting Order: DIS, AB, CO, TS, FACID, DEV, POLABBREV

Date Created: 3/16/2020 11:49:56 AM

Operator: GS

POLLUTANT HEALTH VALUES FROM HARP HEALTH DATABASE:

POLLUTANT ID	POLLUTANT	CANCERURF (INH) (ug/m^3)^-1	ACUTEREL ug/m^3	CHRONICREL (INH) ug/m^3
42101	CO	N/A	N/A	N/A
9901	DieselExhFM	3.00E-04	N/A	5.00E+00
42603	NOX	N/A	N/A	N/A
85101	PM10	N/A	N/A	N/A
88101	PM25	N/A	N/A	N/A
42401	SOX	N/A	N/A	N/A
43104	VOC	N/A	N/A	N/A

MULTIPATHWAY POLLUTANTS ADJUSTMENT FACTORS OTHER THAN 1:

None.

PRIORITIZATION SCORE SUMMARY:

Facility Name
Proximity Method
Optional Factors

FACID	CO AB	DIS DEVICE	Emission and Potency Procedure				Dispersion Adjustment Procedure				Highest Score	
			Cancer	Acute	Chronic	NonCancer	Cancer	Acute	Chronic	NonCancer		
CEMEX RIVER AND QUARRY PLANTS												
Proximity Method: Proximity manually edited by user as 110 m.												
Default Annual Operating Hours: 8760												
Population Factor 0												
Other Factor1 Name 0												
Other Factor2 Name 0												
Other Factor3 Name 0												
Priority Multiplier 0												
100005	36	MD	MOJ	2.23	0.00E+00	3.30E-03	3.30E-03	2.22	0.00E+00	3.30E-03	3.30E-03	2.23
			Device ID 13522	2.23	0.00E+00	3.30E-03	3.30E-03	2.22	0.00E+00	3.30E-03	3.30E-03	

PRIORITIZATION SCORES AND POLLUTANTS: (For proximity method or optional factors information, please see section above.)

2. Hourly Maximum Emissions units: LBS/HR for toxics, MILLICURIES/HR for radionuclides.
3. * GHGs, non-regulatory pollutants, and user defined pollutants are marked by an asterisk with the pollutant ID. These pollutants are not included in the prioritization score calculation.

Facility Name		Emission and Potency Procedure				Dispersion Adjustment Procedure				Highest Score
FACID	CO AB DIS DEVICE	Cancer	Acute	Chronic	NonCancer	Cancer	Acute	Chronic	NonCancer	
CEMEX RIVER AND QUARRY PLANTS										
Default Annual Operating Hours: 8760										
	100005 36 MD MOJ	2.23	0.00E+00	3.30E-03	3.30E-03	2.22	0.00E+00	3.30E-03	3.30E-03	2.23
	Device ID 13522	2.23	0.00E+00	3.30E-03	3.30E-03	2.22	0.00E+00	3.30E-03	3.30E-03	
	Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS					
		42101	CO	6.570E-02	3.092E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		9901	DieselExhp	3.855	9.070E-04	2.23	0.00E+00	3.30E-03	3.30E-03	2.22
		42603	NOX	3.942E-02	1.855E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		85101	PM10	1.930E-03	9.070E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		88101	PM2.5	1.930E-03	9.070E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		42401	SOX	5.690E-03	2.680E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		43104	VOC	1.314E-02	6.184E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

HARP Facility Prioritization Report

HARP EIM Version: 2.1.2

Calculated with a receptor distance of 5638 meters for the Mountain Quarry Plant

Reporting Year: 2020

Project Path: C:\Users\guys.MDAIRQ\Desktop\2020 Permitting Project HARP Files

Project Database: C:\Users\guys.MDAIRQ\Desktop\2020 Permitting Project HARP Files\2020_Permitting_Projects.mdb

CEIDARS Utility Database: C:\HARP2\Tables\CEIDARSTables072020.mdb

HARP Health Talbe: HEALTH201909

Sorting Order: DIS, AB, CO, TS, FACID, DEV

Date Created: 7/22/2020 2:01:42 PM

Operator: GS

POLLUTANT HEALTH VALUES FROM HARP HEALTH DATABASE:

POLLUTANT ID	POLLUTANT	CANCERURF (INH) (ug/m^3)^-1	ACUTEREL ug/m^3	CHRONICREL (INH) ug/m^3
42101	CO	N/A	N/A	N/A
9901	DieselExhPM	3.00E-04	N/A	5.00E+00
42603	NOX	N/A	N/A	N/A
85101	PM10	N/A	N/A	N/A
88101	PM25	N/A	N/A	N/A
42401	SOX	N/A	N/A	N/A
43104	VOC	N/A	N/A	N/A

MULTIPATHWAY POLLUTANTS ADJUSTMENT FACTORS OTHER THAN 1:

None.

PRIORITIZATION SCORE SUMMARY:

Facility Name
Proximity Method
Optional Factors

FACID	CO	AB	DIS	DEVICE	Emission and Potency Procedure				Dispersion Adjustment Procedure				Highest Score
					Cancer	Acute	Chronic	NonCancer	Cancer	Acute	Chronic	NonCancer	

CEMEX RIVER AND QUARRY PLANTS

Proximity Method: Proximity manually edited by user as 5638 m.

Annual Operating Hours 8760

Priority Multiplier 0

100005	36	MD	MOJ	8.90E-03	0.00E+00	1.32E-05	1.32E-05	8.88E-03	0.00E+00	1.32E-05	1.32E-05	8.90E-03
		Device ID	13522	8.90E-03	0.00E+00	1.32E-05	1.32E-05	8.88E-03	0.00E+00	1.32E-05	1.32E-05	

Appendix D:
Draft Federal Operating Permit



FEDERAL OPERATING PERMIT

Permit No.:

Company:

Facility:

Issue date:

Expiration date:

**MOJAVE DESERT
AIR QUALITY
MANAGEMENT
DISTRICT**

14306 Park Avenue
Victorville, CA 92392-2310
760.245.1661 • Fax 760.245.2022
Email: permitting@MDAQMD.ca.gov

www.MDAQMD.ca.gov • @MDAQMD

DRAFT

Signed and issued by
BRAD POIRIEZ

*EXECUTIVE DIRECTOR/
AIR POLLUTION CONTROL OFFICER*

PERMIT REVISIONS

August 05, 2020: Significant Permit Modification described as follows (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 described as follows

(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 described as follows (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. Equipment which is no longer in operation has been removed, and other facility permits have been incorporated; Alternative Fuels Equipment also added.

The following District Permitted Equipment Has been added to this Title V Permit:

B010327 ALTERNATIVE FUELS TRANSFER, STORAGE & INJECTION PROCESS

B011678 ALTERNATIVE FUELS - STORAGE HALL AND CONVEYANCE SYSTEM
B011939 CKD HANDLING SYSTEM
B012195 LIME INJECTION PROCESS
B012253 LIME INJECTION PROCESS
C001091 AIR POLLUTION CONTROL EQUIPMENT (GGF 2)
C011940 CKD HANDLING SYSTEM COLLECTION HOPPER – BAGHOUSE
C011941 CKD HANDLING SYSTEM - QUARRY SILO BAGHOUSE
C012194 LISBH1 SILO – BAGHOUSE
C012196 LISBH2 SILO – BAGHOUSE
C012650 ACTIVATED CARBON INJECTION SYSTEM- KILN Q2
C012651 ACTIVATED CARBON INJECTION SYSTEM- KILN Q3
E009245 DIESEL IC ENGINE PUMP, EMERGENCY
E012225 DIESEL IC ENGINE, EMERGENCY GENERATOR
E012226 DIESEL IC ENGINE, EMERGENCY GENERATOR
T011937 CKD QUARRY SILO
T012193 LIS1 Lime SILO
T012252 LIS2 Lime SILO

January 26, 2011 Administrative Permit Amendment and Modifications:

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

Part III (70) - Roll Press No 1- B007336 update equipment description and permit conditions
Part III (76) - 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(8) - C001277
Part III(9) - C001278
Part III(12) - C001276
Part III(17) - C001281
Part III(18) - C001282
Part III(19) - C001283
Part III(39) - C001284
Part III(40) - C001911
Part III(87) - C001684
Part III(89) - C001481
Part III(91) - C001485
Part III(93) - 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.

Subsequent to receiving the Application for a Federal Operating Permit, CEMEX through its predecessor company Southdown, Inc. submitted an application for a major expansion for the facility described above. The expansion was evaluated in conjunction with the District's Regulation XIII, New Source Review (NSR). CEMEX shut down equipment at both the River and the Black Mountain Quarry Plants. Additionally, a new kiln and ancillary equipment, including control equipment was installed at the latter facility, while older control equipment was shut down and new control equipment added at the River Plant.

As part of the NSR, CEMEX agreed to apply to amend the Federal Operating Permit once the new Authorities to Construct were issued, equipment designed and finalized and installed. This has been accomplished. All of these new pieces of equipment are included in this Operating Permit. The NSR equipment and other ancillary equipment have been added. Equipment that has been shut down as a result of the NSR action is not a part of this Operating Permit.

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

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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 PM₁₀ 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 (SO₂), 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 (CO₂) 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 trichlorotrifluoroethane.
 - (v) Aerosol products.

(vi) VOC containing materials or equipment which is not subject to VOC limits of any rule found in District Regulation XI – Source Specific Standards.

- (d) Owner/operator shall maintain daily usage records for all VOC-containing materials subject to this condition. The records shall be retained for five years and be made available upon request. VOC records shall include but not be limited to:
- (i) The amount, type and VOC content of each solvent used; and
 - (ii) The method of application and substrate type; and
 - (iii) The permit units involved in the operation (if any).
- (e) Determination of VOC Content in Solvent-containing materials, Presence of VOC in Clean-up Materials, or Determination of Efficiency of Emission Control Systems must be made in accordance with methods and provisions of District Rule 442.

[District Rule 442]

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	
<small>(a: Limit is expressed as VOC Actual)</small>		
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

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	On and After 7/1/2005
		g/L (lb/gal)	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 (HVLV) 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)

<u>Coating</u>	<u>Air Dried</u>		<u>Baked</u>	
	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. 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) NO_x-reducing fuels or substances (includes tire-derived fuels).

(2) NO_x 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 NO_x 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 NO_x emission limit shall be adjusted using the following equation:

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

Recovery Factor = $1 + \frac{\text{Waste Heat Recovered (Btu/hr)}}{\text{Kiln Heat Input* (Btu/hr)}}$

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

(3) NO_x 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 NO_x/day

- (ii) For Preheater-Precalciner Kilns manufactured by HumboldtWedag whose construction was completed in 1984: 28,160 lb NO_x/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 NO_x 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 NO_x concentrations to a mass emission rate using the following formula (for purposes of this calculation, standard conditions are @ 68°F and 29.92 inches Hg): $\text{lb/hr} = 7.1497 \times 10^{-6} (\text{ppmv})(\text{dscfm})$
 - (d) For the purposes of 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 NO_x 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 NO_x emission concentrations and NO_x 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 NO_x 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 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 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 NO_x)."

- (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 O₂ 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 3011 - 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 upon 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 upon request. [Rules 204 and 1203, 40 CFR 52.220(c)(39)(ii)(B), 40 CFR 70.6(a)(3)(B)]

25. BAGHOUSE (JBH27) – MDAQMD PERMIT # C004869; 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-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 – MDAQMD 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. BAGHOUSE (JBH 10) – MDAQMD PERMIT # C001911; consisting of:**
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. FINISH MILL (KM 1) –MDAQMD PERMIT # B005192; consisting of:**
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" l. 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" 1, 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" 1, 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" l, 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. **FINISH MILL (KFM11) – MDAQMD PERMIT # B000053; consisting of: Controls:** C000054 (KBH13) 125 hp; C000055 (KBH15) 40 hp; C000056 (KBH11) 25 hp; C000057 (JBH14) 7.5 hp; C000058 (JBH15) 3 hp; C002011 (KBH14 -product collector); C002012 (KBH12) 75 hp.

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

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 - run 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 - Koppert - 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
<hr/>	
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. CDK RIVER SILO – MDAQMD PERMIT # T011944; 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 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; C0001668 (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. ACTIVATED CARBON INJECTION SYSTEM- KILN Q2 - MDAQMD

PERMIT # C012650 consisting of: 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.

<u>Capacity</u>	<u>Equipment Description</u>
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) - GGDCDC
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 SO_x 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. NO_x - 1.95
 - b. SO_x (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 NO_x emissions from Kilns Q2 and Q3, on any fuel or mix of fuels, shall not exceed 19,314 lbs. per Day of Operation, defined as midnight to midnight.
[Case No. ED CV 07-00223-GW (JCRx) CONSENT DECREE]
6. The combined emissions from all permitted combustion sources, including but not limited to Kilns Q2 and Q3 and Burners on Roll Press 1 and 2, on any fuel or mix of fuels, shall not exceed the following daily (midnight to midnight) limits, calculated on a rolling thirty (30) day arithmetic average basis:
 - a. NO_x - 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. NO_x - 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. SO_x - 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, NO_x, SO_x 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 NO_x 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 supplemental fuel burned, by type;
 - g. Tons of clinker produced (this datum shall be calculated by an equation similar to the following, which is used for kiln Q2: $\text{Clinker, t/h} = \text{kiln feed scale reading} \times 0.89 \times F / 1.575$; where 0.89 is the known efficiency of stage 1, F is a correction factor for the actual weight of clinker and 1/1.575 is the conversion factor from ton of feed to ton of clinker all of which will be incorporated into the software for the emissions measurement instrumentation).
 - h. Daily NO_x, SO_x, 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 supplemental fuels. Any use of 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. The following materials and rates are allowed:
- 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.
 - 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 (as specifically allowed in these conditions).

All emission limitations specified in these conditions apply irrespective of fuel or fuel mixture.

[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:
- 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,
 - 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)
 - 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.

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):
- All CEMS data;
 - Demonstration of compliance with all applicable rolling 30-day average limits;
 - Demonstration of compliance with all daily limits;
 - Status of permit (including FOP) applications and permit modifications, and
 - 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 NO_x 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. BAGHOUSE (FBH1) - MDAQMD PERMIT # C000094; 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 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:

$PM_{10}(\text{handling}) = \text{size of stockpile (tons)} \times 0.014 \text{ (lbs/ton)} \times \text{number of handling drops}$

$PM_{10}(\text{stockpile}) = \text{size of exposed area (acres)} \times 4.05 \text{ (tons/acre)}$

*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, FPF2 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 FPF2 (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, FPF3 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 FPF3 (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. KILN (Q3) AND CLINKER COOLER SYSTEM - MDAQMD PERMIT # B005362; consisting of: 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. SO_x (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 NO_x 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. NO_x - 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. NO_x - 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. SO_x - 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, NO_x, SO_x 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 NO_x 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 supplemental fuel burned, by type;
 - g. Tons of clinker produced (this datum shall be calculated by an equation similar to the following, which is used for kiln Q2: $\text{Clinker, t/h} = \text{kiln feed scale reading} \times 0.89 \times F / 1.575$; where 0.89 is the known efficiency of stage 1, F is a correction factor for the actual weight of clinker and 1/1.575 is the conversion factor from ton of feed to ton of clinker all of which will be incorporated into the software for the emissions measurement instrumentation).
 - h. Daily NO_x, SO_x, 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 (as specifically allowed in these conditions). All emission limitations specified in these conditions apply irrespective of fuel or fuel mixture.

15. This equipment may be fired with supplemental fuels. Any use of 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. The following materials and rates are allowed:
- 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

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. LIS2 LIME SILO- MDAQMD PERMIT # C007350; 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]
- 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. BAGHOUSE- EBH8, WHICH SERVES KILN Q-3 PRE-HEATER FEED SYSTEM - MDAQMD PERMIT # C007351; consisting of:** 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
<u>0.153</u>	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. NO_x - 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. NO_x - 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. SO_x - 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 NO_x, 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. BAGHOUSE- DBH 9, WHICH SERVES ROLL PRESS 1 (MATERIAL GRINDING) - MDAQMD PERMIT # C007360; consisting of: 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. BAGHOUSE DBH 7, WHICH SERVES ROLL PRESS No. 1 - MDAQMD PERMIT # C007361; consisting of:** 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. BAGHOUSE-DBH 8, WHICH SERVES ROLL PRESS No.1 - MDAQMD PERMIT # C007362; consisting of:** 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. BAGHOUSE- DBH6 - MDAQMD PERMIT # C007363; consisting of:
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. ROLL PRESS No. 2, RAW MATERIAL GRINDING - MDAQMD

PERMIT # B007364; consisting of: 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. NO_x - 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. NO_x - 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. SO_x - 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 NO_x, 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. BAGHOUSE-DBH 12, WHICH SERVES ROLL PRESS No. 2 - MDAQMD PERMIT # C007365; consisting of:** 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. BAGHOUSE-DBH 10, WHICH SERVES ROLL PRESS No.2 -

MDAQMD PERMIT # C007366; consisting of: 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. BAGHOUSE-DBH 11, WHICH SERVES ROLL PRESS No. 2 -
MDAQMD PERMIT # C007367; consisting of: 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. BAGHOUSE-DBH14, CONTROLLING EMISSIONS FROM THE RAW MATERIAL TRANSPORT SYSTEM - MDAQMD PERMIT # C007355; consisting of: 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 802ft² 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. BAGHOUSE - EBH11 - MDAQMD PERMIT # C008474; consisting of:

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 1047ft² 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. TANKS, AQUEOUS AMMONIA - MDAQMD PERMIT # T010576;
consisting of: 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(c)(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 comes first; and
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 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. NO_x - 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. NO_x - 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. SO_x - 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:

<u>Capacity</u>	<u>Equipment Description</u>
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
<u>200</u>	<u>Blower for pneumatic system</u>
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 5.2:1. 25 hp fan motor. Used in the Limestone Raw Grinding System.

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. 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 000]

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. DIESEL IC ENGINE PUMP, EMERGENCY; District Permit Number

E009245; Consisting of: 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 comes first; and

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 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. NO_x - 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. NO_x - 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. SO_x - 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 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 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 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 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 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, Rotary Valve and Fully enclosed Pneumatic Conveyance Components

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below. [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 (Manufacturers 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 (Manufacturers 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]

AUXILLARY 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 III). 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 III, 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]

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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							
		Area	Major	Code	Performance Testing Method	Code	Initial Compliance Date		Frequency	Method	Code	Frequency
40 CFR 63.1340(b)				40 CFR		40 CFR	Existing	New			40 CFR	
Applicability	HCl	Less than 10 tpy	10 or more tpy	CAA 112(a)(1) & (2)	Methods 320 or 321	63.1352(a)						
				CAA 112(a)(1) & (2)	Methods 26 or 26A	63.1352(b)						
	HAPs	Less than 10/25 tpy	10/25 or more tpy	CAA 112(a)(1) & (2)	Method 18 or 320	63.1352(c)						
All kiln and in-line kiln/raw mill	PM	0.30 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, 2002	on Start up	Daily	Method 9	63.1350(c)(2)	Daily
PMCD inlet greater than 400° 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 400° 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% O ₂	50 ppmvd as propane @ 7% O ₂	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% O ₂	50 ppmvd as propane @ 7% O ₂	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	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	up 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	up 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	up 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	up 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				NOTIFICATION - 40 CFR 63.1353			
1. Starting at raw material storage prior to raw mill				Initial	Oct. 12, 1999	63.9(b)(2)	
2. Operation and Maintenance (O&M) Plan 40 CFR 63.1350(a)				Performance Test	60 days prior	63.9(e)	
3. Startup, Shutdown or Malfunction (SSM) Plan 40 CFR 63.6(e)(3)				Opacity Test	30 days prior	63.9(f)	
4. Inspection of combustion system (Per O&M Plan required by 40 CFR 63.1350(a))				CMS	60 days prior	63.9(g)	
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))				Compliance Status	60 days after test	63.9(h)	
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				Reporting - 40 CFR 63.1354			
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))				Test results	within 60 days	63.10(d)(2)	
9. If visible emissions then take corrective action within 1-hour per O&M Plan, follow-up Method 22 within 24-hours & if visible emissions conduct a 30-minute Method 9 within 1-hour. (Per O&M Plan required by 40 CFR 63.1350(a))				Opacity Results	within 30 days	63.10(d)(3)	
10. Metric units for emission limits:				Extended Compliance	within 30 days	63.10(d)(4)	

All kiln and in-line kiln/raw mill								Consistent with SSM	every 6 months	63.10(d)(5)(i)
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)

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MACT STANDARD -- PORTLAND CEMENT MANUFACTURING INDUSTRY												
40 CFR 63 Subpart LLL												
Effective Date: September 9, 2015												
Affected Sources	Pollutant	Emission limit by Source Type			Monitoring and Compliance							
		Area	Major	Code	Performance Testing		Monitoring Requirements ² & ³			Method	Code	Frequency
40 CFR 63.1340(b)					Method	Code	Initial Compliance Date					
				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		63.1343(b)(3)	Method 23	63.1349(b)(3)	September 9, 2015	on Start	30 months	Temperature	63.1350(f)	Continuous

		existing units. 0.4 ng per dscm @ 7% O ₂ for new units.					up					
										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% O ₂	24 ppmvd as propane @ 7% O ₂	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% O ₂	24 ppmvd as propane @ 7% O ₂	63.1346(b) & (c)(1)	SP-8A	63.1349(b)(4)	September 9, 2015	on Start up	5 years	SP-8A	63.1350(h)	Continuous

Raw material, clinker, or finished product storage bin	Opacity		10%	63.1348	Method 9	63.1349(b)(2)	September 9, 2015	on Start up	5 years	Method 22 - 1m 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)	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				NOTIFICATION - 40 CFR 63.1353			
1. Starting at raw material storage prior to raw mill					Initial	Oct. 12, 1999	63.9(b)(2)
2. Operation and Maintenance (O&M) Plan 40 CFR 63.1350(a)					Performance Test	60 days prior	63.9(e)
3. Startup, Shutdown or Malfunction (SSM) Plan 40 CFR 63.6(e)(3)					Opacity Test	30 days prior	63.9(f)
4. Inspection of combustion system (Per O&M Plan required by 40 CFR 63.1350(a))					CMS	60 days prior	63.9(g)
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))					Compliance Status	60 days after test	63.9(h)
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					Reporting - 40 CFR 63.1354		
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))					Test results	within 60 days	63.10(d)(2)
9. If visible emissions then take corrective action within 1-hour per O&M Plan, follow-up Method 22 within 24-hours & if visible emissions conduct a 30-minute Method 9 within 1-hour. (Per O&M Plan required by 40 CFR 63.1350(a))					Opacity Results	within 30 days	63.10(d)(3)
10. Metric units for					Extended Compliance	within 30	63.10(d)(4)

emission limits:										days	
All kiln and in-line kiln/raw mill									Consistent with SSM	every 6 months	63.10(d)(5)(i)
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)

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98. Subpart LLL--National Emission Standards For Hazardous Air Pollutants From The Portland Cement Manufacturing Industry

General

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Applicability And Designation Of Affected Sources.

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[Reserved]

Table 1

To

Subpart

LLL

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..... Opacity.....	0.15 kg/Mg of feed (dry basis). 20 percent.
All kilns and in-line kiln/raw mills at major and area sources (including alkali bypass).	D/F..... 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.	0.20 ng TEQ/dscm
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 (1.7×10^{-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 (8.7×10^{-11} gr per dscf) (TEQ) corrected to seven percent oxygen; or

(d)(2) 0.40 ng per dscm (1.7×10^{-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 (8.7×10^{-11} gr per dscf) (TEQ) corrected to seven percent oxygen; or

(e)(1)(ii) 0.40 ng per dscm (1.7×10^{-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;

(1)(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

(1)(3)(iii) Data or information documenting that the alternative monitoring requirement would provide equivalent or better assurance of compliance with the relevant emission standard.

(1)(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:

(1)(4)(i) Notice of the information and findings upon which the intended disapproval is based; and

(1)(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.

(1)(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.

(1)(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 | Daily test of at
 | test, if applicable| least 30-minutes,
 | | while kiln is at
 | | highest load or
 | | capacity level.

Kilns and in-line kiln raw | Particulate matter | Deferred.
 mills at major sources | continuous emission|
 (including alkali bypass)/ | monitoring system. |
 particulate matter. | |

Kilns and in-line kiln raw | Combustion system | Conduct annual
 mills at major and area | inspection. | inspection of
 sources (including alkali | | components of
 bypass)/ D/F. | | combustion system.

| Continuous | Install, operate,
 | temperature | calibrate and
 | monitoring at PMCD | maintain continuous
 | inlet. | temperature
 | | monitoring and
 | | recording system;
 | | calculate three-
 | | hour rolling
 | | averages; verify
 | | temperature sensor
 | | calibration at
 | | least quarterly.

Kilns and in-line kiln raw | Activated carbon | Install, operate,
 mills at major and area | injection rate | calibrate and
 sources (including alkali | monitor, if | maintain continuous
 bypass)/ D/F (continued). | applicable. | 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 exceedances 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	Comment
		Subpart LLL		

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	No	§63.1340

specifies

63.1(b)(2) and (3)		Determination	applicability	
63.1(c)(1)		Applicability After	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

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

and

monitoring

given in

63.8(d).....| | | subpart LLL.
 63.8(d).....| Quality Control.....| Yes. |
 63.8(e).....| Performance Evaluation | Yes.....| Performance
 | for CMS. | | specification
 | | | supersedes
 | | | requirements for

THC

63.8(f)(1) through (f)(5).....| | | 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]

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PART V OPERATIONAL FLEXIBILITY

ALTERNATIVE OPERATING SCENARIO(S):

- A. OFF PERMIT CHANGES
- I. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
- A. Permittee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of Rule 219; and
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, permittee shall implement the change as follows:
1. Permittee 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. Permittee 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. Permittee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. [See 1203(E)(1)(c)(i)a. and g.]

- C. Permittee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off Permit Change to this Title V permit. [See 1203(E)(1)(c)(i)f.]
 - D. Permittee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). [See 1203(E)(1)(c)(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)]

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PART VI CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

40CFR60, Standards of Performance for New Stationary Sources (NSPS)
40CFR60, Appendix F, Quality Assurance Procedures
40CFR61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40CFR61, Subpart M, National Emission Standards for Asbestos
40CFR72, Permits Regulation (Acid Rain Program)
40CFR73, Sulfur Dioxide Allowance System
40CFR75, Continuous Emission Monitoring
40CFR75, Subpart D, Missing Data Substitution Procedures
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures
40CFR75, Appendix C, Missing Data Estimating Procedures
40CFR75, Appendix D, Optional SO₂ Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of CO₂ 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

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APPENDIX B
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.

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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

Table B-3: NSPS Subpart A, Y, and OOO Applicability		
Section	Description	CEMEX Applicability
§60.18	General control device requirement (Flares)	No
§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	<u>STANDARDS OF PERFORMANCE FOR NONMETALLIC MINERAL PROCESSING PLANTS (60.670 – 60.676)</u>	
§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 8.7×10^{-11} grains (TEQ) per dscf of exhaust gases @ 7% O₂, or 1.7×10^{-10} grains (TEQ) per dscf of exhaust gases @ 7% O₂ for temperatures below 400 °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% O₂, or 0.4 ng/dscm (TEQ) of exhaust gases @ 7% O₂ for temperatures below 400 °F for existing units. Limit D/F emissions to 0.2 ng/dscm (TEQ) of exhaust gases @ 7% O₂, or 0.4 ng/dscm (TEQ) of exhaust gases @ 7% O₂ for temperatures below 400 °F for new units (constructed or reconstructed after May 6, 2009).
3. §63.1344(a) & (b) Limit temperature at kiln baghouse inlet to values measured during D/F performance test (with raw mill on and off, respectively).
4. §63.1349(b)(1) Conduct an initial performance test for PM using EPA Method 5 . Test at the highest load or capacity reasonably expected to occur. Minimum 3 separate runs. Minimum sample volume 30 dscf. Back half is not included. Report results in lb/ton feed.
5. §63.1349(b)(3) Conduct an initial performance test for D/F using EPA Method 23. Minimum 3 separate runs. Minimum sample volume 90 dscf PM D inlet temperature must be monitored. Test with raw mill on and raw mill off, separately.
6. §63.1349(c) Repeat performance test for PM every 12 months.
7. §63.1349(d) Repeat performance test for D/F every 30 months.
8. §63.1349(e) Repeat performance test for PM, and D/F within 360 hours of initiating any significant change in the feed or fuel from that used in the previous performance test
9. §63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.
10. §63.1350(d) Prepare an operations and maintenance (O&M) plan.
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 recordsSemiannual 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, B00053, B001093, B005192, B000083, and B001084) – For compliance on and after September 9, 2015

1. §63.1345 Limit opacity to 10%.
2. §63.1349(b)(2) Conduct an initial performance test for opacity using EPA Method 9. The duration of the test shall be 3 hours but may be reduced to 1 hour if certain conditions are met.
3. §63.1349(c) Repeat performance test for opacity every 5 years.
4. §63.6(e)(3) Develop startup, shutdown, and malfunction (SSM) plan.
5. §63.1350(d) Prepare a written operations and maintenance (O&M) plan.
6. §63.1350(f) Perform daily opacity monitoring using EPA Method 22 for six minutes.
7. §63.1350(f)(1) & (f)(2) If visible emissions are observed during opacity monitoring, perform corrective actions within 1 hour according to O&M plans, followed by VE inspection using EPA Method 9 within 24 hours.
8. §63.1353(b)(3) & §63.9(f) Notify administrator of opacity test at least 30 calendar days before scheduled test date.
9. §63.1353(b)(5) Notification of compliance status within 30 or 60 days after performance test completed.
10. §63.1354(b)(2) & §63.10(d)(3) Submit results of opacity observations before 30 days following the completion of the VE/opacity observation.
11. §63.1354(b)(1)&(2), & §63.10(d)(2)&(3) Submit results of performance test and opacity observations within 60 days after completion of test.
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	

Table B-8: NESHAP Subpart LLL Applicability and Exceptions			
Section #	Section Title	Applicability (yes/no)	Exceptions?
§63.1349	Performance Testing Requirements	Yes, except	63.1349(b)(3)(v) and (vi), (b)(4)
§63.1350	Monitoring Requirements	Yes, except	63.1350(c)(1), (d)(1), (g), (h) & (K)
§63.1351	Compliance Dates	Yes	
§63.1352	Additional Test Methods	Yes	
§63.1353	Notification Requirements	Yes, except	(b)(4)
§63.1354	Reporting Requirements	Yes, except	(b)(7)
§63.1355	Recordkeeping Requirements	Yes	
§63.1356	Exemption from new Source Performance Standards	Yes	
§63.1357	Temporary, Conditioned Exemption from Particulate Matter and Opacity Standards	Yes	
§63.1358	Delegation of Authority	Yes	

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APPENDIX C 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]

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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
<u>APPLICABLE PSEUS:</u>	B000081, B001666, B001289	B001666	B000081, B001666
GENERAL CRITERIA <u>MONITORING APPROACH USED TO MEASURE THE INDICATORS:</u>	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 <u>Specifications for obtaining representative data:</u>	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

<p>INDICATORS AND THE MONITORING APPROACH:</p> <ul style="list-style-type: none">• 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.
<p>RATIONALE AND JUSTIFICATION:</p> <ul style="list-style-type: none">• 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.

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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)(?)	5/31/1977		
RC	52	Particulate Matter - Concentration	RC	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 Neg Dec. 12/21/1994	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3886	
Old SB	70	Asphalt Air Blowing	SBC	Fed Neg 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)(v)	6/14/1978	43 FR 25684	
RC	74	Vacuum Producing Devices or Systems	RC	Fed Neg Dec 12/21/1994	Bef 06/72	6/30/1972	40 CFR 52.269(b)(3)(ii)(A)			
SC	101	Title	RC	7/1/1993 via Res. 94-03	Bef 11/77	8/11/1980	FR Text	6/9/1982	47 FR 25013	
SB	101	Title	SBC			12/19/1998	40 CFR 52.220(c)(179)(i)(B)	11/27/1990	55 FR 49281	
MD	102	Definition of Terms				4/23/2018	40 CFR 52.220(c)(520)(i)(A)(1)	7/2/2019	84 FR 31682	
MD	102	Definition of Terms		8/26/2019	(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	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	
SB	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	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		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	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	Exemption, Net Increase in Emissions	RC	11/25/1991 via Res. 94-03		8/7/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231	

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Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
SC	221	Plans	RC	None		1/4/1985	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	2/21/1994	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	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			4/7/1989	40 CFR 52.220(c)(155)(iv)(B)	1/29/1985	50 FR 3906
MD	401	Visible Emissions	MD	8/26/2019	Sip Sub				
SC	403	Fugitive Dust		7/25/1977 via Res. 94-03		G-73	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	FR Text	6/9/1982	47 FR 25013
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03		10/5/1979	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 52489
SC	405	Solid Particulate Matter, Weight	RC	7/25/1977 via Res. 94-03		5/7/1976	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 52489
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 52489
SC	407	Liquid and Gaseous Air Contaminants	RC	7/25/1977 via Res. 94-03		4/2/1982	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	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	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	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
SC	431.2	Sulfur Content of Liquid Fuels	RC	See MD 431		Bef 8/80	FR Text	6/9/1982	47 FR 25013
SC	431.3	Sulfur Content of fossil Fuels	RC	See MD 431		Bef 8/80	FR Text	6/9/1982	47 FR 25013
SC	432	Gasoline Specifications		7/25/1977 via Res. 94-03		G-73	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	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	Bef 2/83	2/3/1983	40 CFR 52.220(c)(127)(vii)(B)	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	Bef 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	Bef 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 or Systems	RC	Rescinded & Fed. Neg. Dec 12/21/1994	Bef 5/91	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35759
MD	465	Vacuum Producing Devices or Systems (Rescinded)	MD	Rescinded & Fed. Neg. Dec 12/21/1994	Not SIP	12/29/1994	40 CFR 52.222(a)(1)(iii)	9/11/1995	60 FR 47074
SC	466	Pumps and Compressors	RC	Rescinded & See 1102 10/26/94	Bef 12/83	12/2/1983	40 CFR 52.220(c)(166)(i)(A)(1)	1/15/1987	52 FR 1627
MD	466	Pumps and Compressors (Rescinded)	MD	Rescinded & See 1102 10/26/94	Not SIP	11/30/1994	40 CFR 52.220(c)(39)(ii)(G)	8/19/1999	64 FR 45175
SC	466.1	Valves and Flanges	RC	None		5/2/1980	FR Text	6/9/1982	47 FR 25013
SC	468	Sulfur Recovery Units	RC	7/25/1977 via Res. 94-03		G-73	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	FR Text	6/9/1982	47 FR 25013
SB	469	Sulfuric Acid Units			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	FR Text	6/9/1982	47 FR 25013
SB	472	Reduction of Animal Matter	SBC	7/21/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	473	Disposal of Liquid and Solid Wastes	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25/1997	Bef 11/96	11/26/1996	40 CFR 52.220(c)(254)(i)(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)(xii)(A)	1/27/1981	46 FR 8471

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Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
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
MD	900	Standards of Performance for New Stationary Sources	MD		2/25/2019	Delegated			
MD	1000	National emissions Standards for Hazardous Air Pollutants	MD		2/25/2019	Delegated			
SC	1101	Secondary Lead Smelters/Sulfur Oxides (SC Adopted 10/7/77)	RC	None	4/4/1980	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	1102	Petroleum Solvent Dry Cleaners (SC Amended 12/7/90)	RC	None	12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
MD	1102	Fugitive Emissions of VOC's from Components at Pipeline Transfer Stations	MD		11/30/1994	Current	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	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	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	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	Elmulsified 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	40 CFR 52.220(c)(155)(iv)(A)	1/24/1985	50 FR 3339
MD	1113	Architectural Coatings	MD		4/23/2012	Current	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	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	40 CFR 52.220(c)(518)(i)(A)(2)	2/27/2020	85 FR 11812
MD	1116	Automotive Refinishing Operations	MD		8/23/2010	Current	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	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	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)	RC	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	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	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	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	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	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	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	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	Bef 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 FR 66285
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 Bef 5/91	??	40 CFR 52.220(c)(182)(8)(A)(1)	??	??
SC	1176	Sumps and Wastewater Separators	RC	None	Bef 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	1303	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	Current	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 - SOCM1	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

