# FEDERAL OPERATING PERMIT

Permit No.: **~~11800001~~**

Company: **Mitsubishi Cement Corporation**

Facility: **Cushenbury Plant**

Issue date: **06/18/20**

Expiration date: **06/18/25**

**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**

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

**www.MDAQMD.ca.gov • @MDAQMD**

Signed and issued by
**BRAD POIRIEZ**
*EXECUTIVE DIRECTOR/*
*AIR POLLUTION CONTROL OFFICER*

# FEDERAL OPERATING PERMIT

Permit No.: **11800001**

Company: **Mitsubishi Cement Corporation**

Facility: **Cushenbury Plant**

Issue date: **6/18/2020**

Expiration date: **6/18/2025**

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# PERMIT REVISION HISTORY

**December 9, 2021 – Significant Modification as follows:**

The Mojave Desert Air Quality Management District (MDAQMD or District) received an application on June 25, 2021 with supplemental applications dated September 21, 2021, proposing modification to the facility as follows;

- Install a third clinker storage dome to the existing clinker dome complex (B009582) along with three (3) new dust collectors (C014322, C014323, and C014325) and one (1) increased size dust collector (C009583);
- Use SERs from removal/shutdown of sand plant bagging system (District permits T004299, C003949, C004289, and C004290),
- Make small modification to the injection component design of the lime silo injection system (B011738), and,
- Replace one portable diesel ICE powering a welder (B014326 replaces B009466),

Please refer to the Preliminary Decision Documents (Statement of Basis dated XXX for specific permit evaluation details. See updates to Part I Equipment List and Part III numbers 36A,42,43,46,47 and 47A for addition or modification of the above emission units.

In addition;

- Local permit C001026 reference to dust collection for Permit B000983 is inaccurate and was corrected.

*Changes made by C. Anderson*

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**December 10, 2020 – Significant Modification as follows:**
Please refer to the Preliminary Decision Documents (Statement of Basis) dated December 10, 2020 for complete details. Final Decision and Permit issued on February 2, 2021.
*Changes made by Sheri Haggard*

**May 4, 2020 – Renewal of Title V Permit**
Please refer to the Preliminary Decision Documents (Statement of Basis) dated May 5, 2020 for complete details.
*Changes made by Sheri Haggard*

**May 15, 2019 – Significant Modification as follows:**
Please refer to the Preliminary Decision Documents (Statement of Basis) dated May 15, 2019 for complete details. Final Decision and Permit issued on July 9, 2019.
*Changes made by Sheri Haggard*

**November 30, 2017 – Significant Modification as follows:**
Please refer to the Preliminary Decision Documents (Statement of Basis) dated November 30, 2017 for complete details. Final Decision and Permit issued on January 23, 2018.
*Changes made by Sheri Haggard*

**June 22, 2017 – Significant Modification as follows:**
Please refer to the Preliminary Decision Documents (Statement of Basis) dated June 22, 2017 for complete details. Final Decision and Permit issued on August 8, 2017.

*Changes made by Sheri Haggard*

**December 8, 2015 – Minor Modification as follows:**
PART III.A.46, Dust Collector (4-DC-14), C001342 was modified as the dust collector was replaced with a unit with an improved control efficiency.
*Changes made by Sheri Haggard*

**June 23, 2015 – Significant Modification as follows:**
An application was received on February 18, 2015 for a new Dust Shuttling System and for modifications to Finish Mills 2 and 4, the existing Lime Injection System, the Finish Mill 1 Dust Collector, the Type III Loadout System, and the Limestone Material Delivery System. In addition, the District received another application on June 11, 2015 for modifications to the Kiln and Clinker Cooler Dust Collector Exhausts. The proposed addition of the Dust Shuttling System and the other associated permit modifications reflect a compliance strategy for the upcoming requirement deadlines of 40 CFR 63, Subpart LLL – NESHAP from the Portland Cement Manufacturing Industry.
*Changes made by Sheri Haggard*

**February 25, 2015 - Renewal of Title V Permit**
*Changes made by Sheri Haggard*

**September 12, 2013 - Significant Modification as follows:**
Part III.A.36 Clinker Pyro Processing Kiln, B001025, was updated as follows:
Operating conditions were updated to streamline permit language and clarify the definitions of supplemental fuels allowed. Specifically, updates for the supplemental fuels of facility-generated wastes, TDF, and woodchips were made. Additionally, permit language allowing for the use of engineered fuel as a supplemental fuel were added with source testing parameters.
Part III.A.40 Wood Chip System, B010041 was updated to permit other supplement fuels to be used on this system.
Please refer to NSR/FOP Determination Document dated 09-12-13 for specific details.
*Changes made by Sheri Haggard*

**March 13, 2013 - Minor Modification described as follows:**
Part III.A added equipment 36A (Slurry lime injection system (B011738) and 36B (Dust Collector for Slurry Lime Injection Storage Silo)
*Changes made by Sheri Haggard*

**August 24, 2012 - Minor Modification described as follows:**
Page I-2, changed last sentence in process description from "Clinker will eventually be stored in a proposed Clinker storage dome." to "Clinker is stored in permitted storage enclosures." as the clinker storage is complete.
Page I-6, changed the permit status of permit E010971 from an ATC to PTO.
Part II.C.10 added facility-wide compliance requirements for GHGs pursuant to District Rule 1211.
Part III.A.36 updated B001025, CLINKER PYRO PROCESSING KILN, equipment description and the condition language on conditions 3, 5, 8, 9, and 10.

*Changes made by Sheri Haggard*

**July 18, 2011- Administrative Permit Amendment described as follows:**
District Permit C011253 added to displace C001027 during the operation of the clinker to storage dome transfer/conveyor line associated with B002138. C001027 will remain at its current location and will continue to serve as a bin vent and during loading to clinker storage silo T002093. C011253 will control clinker dust emissions during the transfer/conveying process. C011253 and C001027 are prohibited from concurrent operation. No net emission increase from this action.
Changes made to the following to reflect the permitting action which included updates of descriptions, conditions and adding C011253; Part III A-29, A-27, and added A-29a.
Part I and III (132, C-1) updated gas dispensing conditions for N007349.
Part I and III (138a) added emergency diesel generator E010971 as replacement for E007913.
Part I and III (134) permit E007913 no longer active.
*Changes made by Chris Anderson*

**March 04, 2010: - Administrative Permit Modification described as follows:** Permit B010724 added to chip tires as a supplemental fuel source and increase the amount (percent) of tires used in permit B001025 from 22% to 70% of heat input but with no increase in emissions of health risk. The following 'Permit Status' were changes:

PTO to ATC – B001025
ATC to PTO – B001033, B002109, B003948, B009582, B009929, B010042, C009583, C009585, C009587, E010297 and T010019
PTO to INACT – E008201

Changes made were on pages Table of contents, I-3 through I-7, III- 58 and III-63.
*Changes by Richard Wales*

**March 25, 2009 - Renewal of Title V Permit described as follows:**
Update and renew Title V Permit after concurrent 30 day public notice and 45 day EPA review periods, Reissue date March 25, 2009.

**August 19, 2008 - Administrative Permit Modification described as follows:** Permit the use of clean non-toxic wood as a supplemental fuel source.
*Changes made by Sam Oktay*

**November 13, 2007 - Administrative Permit Modification described as follows:**
Clinker Storage Dome System permit changes, item # 42, page III-63. Add Wood Chip material handling system, MDAQMD Permit # B010041 item # 40, page III-61.
*Changes made by Sam Oktay*

**June 14, 2006 - Major Permit Modification described as follows:**
Title V changes associated with modifications to Finish Mill #4, New Separator and Dust Collector, New Clinker Dome, and associated other Permit Modifications. Additionally, recent District Permitting of several previously existing portable diesel powered equipment is included in this revision. Modified MDAQMD Permit Listing table, pages I-3 through I-7. Modified Monitoring, Recordkeeping, Reporting and Testing Requirements, pages III-31 through III-178.

Modified Operational Flexibility Provisions, pages V-182 through V-183 to incorporate most current language. Modified Appendices A & B to incorporate associated permit changes.
*Changes made by Sam Oktay*

**September 29, 2004 - Administrative Permit Modification described as follows:**
Revise Title Page to reference page 2 for permit modification summaries.
Change Annual & Semi Annual Report due dates to coincide with Cement MACT report due dates of January 31 and July 30 of any given year. See Part II, Section B, condition 4(e), and B, condition 5 for location of wording changes.
*Changes made by Bill Weese*

# TABLE OF CONTENTS



NOTE:

- Please see Appendix A and B for a list of unit categories and a list of applicable requirements by unit category, as well as SIP citations and cited basis/authority.

- Please see Appendix C for Specific Federal Requirements.

# PART I

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## INTRODUCTORY INFORMATION

### A. FACILITY IDENDIFYING INFORMATION:

| | |
|---|---|
| Owner/Company Name: | Mitsubishi Cement Corporation |
| Facility Names: | Cushenbury Plant |
| Facility Location: | 5808 Highway 18, Lucerne Valley, CA 92356 |
| Mailing Address: | 5808 Highway 18, Lucerne Valley, CA 92356 |
| Federal Operating Permit Number: | 11800001 |
| MDAQMD Company Number: | 1180 |
| MDAQMD Facility Number: | 1 |
| Responsible Official: | Mr. Austin Marshall<br>Vice President and Plant Manager<br>760-248-7373 |
| Facility "Site" Contact(s): | Mr. David Rib<br>Environmental Manger<br>760-248-5184<br>drib@mitsubishicement.com |
| Facility "Off Site" Contact(s): | None |
| Nature of Business: | Portland Cement Manufacturing |
| SIC/NAICS Code: | 3241/327310 - Cement Manufacturing |
| Facility Coordinates | UTM (km) 489E/3863N (34.354333/-116.854429) |

## B. DESCRIPTION OF FACILITY & PROCESSES:

Mitsubishi Cement Corporation – Cushenbury Plant (MCC) is located in Lucerne Valley and is a Portland Cement manufacturing facility with a preheater Precalciner kiln. The hourly throughput is approximately 325-tons/hour feed. The preheater has four stages, and the Precalciner consumes about 60% of the total fuel used in the kiln. The kiln currently fires coal tires, woodchips, biosolids (dewatered sewage sludge) on an occasional basis, and natural gas as a back-up fuel. The raw mill is in-line with the kiln. This is an existing kiln, and there is no raw material dryer at this facility. The kiln does not waste cement kiln dust (CKD) at this time. Currently the kiln has the following raw material sources: Cushenbury mine for limestone and silica, the Silver Lake mine in Baker, CA, for iron from magnetite, and mines in Australia and Malaysia for alumina and bauxite. Other raw material sources are used as economics change. Clinker is stored in permitted storage enclosures.

***PROCESS: 1 – CRUSHING & SCREENING FOR PREHEATER PLANT***

***PROCESS: 1A – CLAY STORAGE***

***PROCESS: 2 – RAW GRINDING***

***PROCESS: 3 – BURNING & COOLING – RAW BLENDING***

***PROCESS: 3A – CLINKER HANDLING & STORAGE***

***PROCESS: 4 – GYPSUM & ADMIX FOR FINISH MILLS #1 & #3***

***PROCESS: 5 – FINISH MILLS #1, #2, #3 & #4***

***PROCESS: 5A – ROLLER PRESS SYSTEM FOR CLINKER***

***PROCESS: 6 – CEMENT PACKING & SILO – UNITS #1, #2 & #3***

***PROCESS: 7 – CEMENT SILOS & BULK LOADING***

***PROCESS: 8 – COAL HANDLING & STORAGE***

***PROCESS: 9 – MISCELLANOUS EQUIPMENT***

***PROCESS: 10 – SAND PLANT***

## C. EQUIPMENT LIST:

1. Active Equipment:

| District Permit No. | Permit Description |
|---|---|
| B000975 | GYPSUM UNLOADING TO STORAGE |
| B000983 | CLINKER TRANSFER AND INSIDE STORAGE |
| B000989 | SOUTH CEMENT LOADOUT - TRUCK |
| B000991 | SOUTH CEMENT LOADOUT - RAIL |
| B000993 | UNIT NO. 1 - CEMENT PACKING |
| B001007 | RAILROAD CAR COAL UNLOAD AND STORAGE |
| B001009 | PRIMARY AND SECONDARY CRUSHING SYSTEM |
| B001010 | CLAY DELIVERY, CRUSHING AND STORAGE SYSTEM |
| B001011 | CRUSHING, STOCKPILING, AND PRE-BLENDING SYSTEM |
| B001012 | RAW ADDITIVE DELIVERY TO STORAGE |
| B001019 | RAW GRINDING AND BLENDING |
| B001025 | CLINKER PYRO PROCESSING KILN |
| B001032 | CLINKER TRANSFER TO STORAGE |
| B001033 | MILL NO. 4 - FINISH (5-FM-4) SYSTEM |
| B001034 | MILL NO. 1 - FINISH (5-FM-1) SYSTEM |
| B001035 | MILL NO. 3 - FINISH (5-FM-3) SYSTEM |
| B001036 | FINISH MILL NO. 2 SYSTEM (5-FM-2) |
| B001039 | COAL RECLAIM SYSTEM |
| B001857 | BLENDING OPERATION FOR KILN FEED |
| B001858 | GYPSUM SILO TO BIN STORAGE |
| B001859 | GYPSUM UNLOADING |
| B001864 | NORTH CEMENT LOADOUT - TRUCK |
| B001865 | CEMENT LOADOUT TRANSFER |
| B001866 | UNIT NO. 2 - CEMENT PACKING |
| B001868 | MILL NO. 4 - COAL GRINDING (7-CM-4) |
| B001871 | CEMENT TRUCK LOADOUT NO. 1 - STATION |
| B001872 | CEMENT TRUCK LOADOUT NO. 2 - STATION |
| B001979 | CLAY DOME RECLAIM SYSTEM |
| B001983 | FLY ASH SILO TRANSFER |
| B001984 | KILN BYPASS SYSTEM - ALKALI DUST |
| B001985 | UNIT NO. 3 - CEMENT PACKING |
| B001986 | AUXILIARY COAL TRANSPORT TO KILN |
| B002089 | CEMENT UNLOAD EQUIPMENT |
| B002109 | CEMENT TRUCK LOADOUT BLOCK STATION |

| District Permit No. | Permit Description |
|---|---|
| B002137 | GRAVITY COOLER |
| B002138 | CLINKER COOLING EXHAUST DUST RECLAIM SYSTEM TRANSFER |
| B002405 | FINISH MILL NO. 4 ROLLER PRESS SYSTEM |
| B002784 | MILL NO. 3 - COAL GRINDING (7-CM-3) |
| B003948 | SAND PLANT |
| B004694 | BIO-SOLIDS HANDLING SYSTEM |
| B009462 | DIESEL IC ENGINE, PORTABLE WELDER (725-051) |
| ~~B009466~~B014326 | DIESEL IC ENGINE, PORTABLE, ~~LOW USE~~ WELDER (725-04~~9~~53) |
| B009582 | CLINKER STORAGE DOME |
| B009929 | DIESEL IC ENGINE, PORTABLE WELDER (725-052) |
| B010041 | WOOD CHIP SYSTEM |
| B010042 | BAUXITE UNLOADING HOPPER |
| B010724 | CHIPPED TIRE FEED SYSTEM |
| B011738 | LIME INJECTION SYSTEM |
| B012291 | DUST SHUTTLING SYSTEM |
| C000972 | BAGHOUSE |
| C000976 | BAGHOUSE |
| C000984 | BAGHOUSE |
| C000988 | BAGHOUSE |
| C000990 | BAGHOUSE |
| C000995 | BAGHOUSE |
| C000996 | BAGHOUSE |
| C000999 | BAGHOUSE (4-DC-45) |
| C001000 | BAGHOUSE FOR FM 2 FINISH MILL (5-DC-6) |
| C001001 | BAGHOUSE |
| C001002 | BAGHOUSE (7-DC-9) |
| C001003 | BAGHOUSE |
| C001005 | BAGHOUSE (7-DC-1) |
| C001006 | BAGHOUSE |
| C001013 | BAGHOUSE |
| C001014 | BAGHOUSE |
| C001016 | BAGHOUSE |
| C001017 | BAGHOUSE |
| C001018 | BAGHOUSE |
| C001020 | BAGHOUSE |
| C001021 | BAGHOUSE (3-DC-5) |
| C001023 | BAGHOUSE |
| C001024 | BAGHOUSE |

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| District Permit No. | Permit Description |
|---|---|
| C001026 | BAGHOUSE |
| C001027 | BAGHOUSE |
| C001028 | BAGHOUSES |
| C001029 | BAGHOUSE |
| C001037 | BAGHOUSE FOR FINISH MILL NO. 4 (5-DC-2) |
| C001041 | BAGHOUSE |
| C001042 | BAGHOUSE |
| C001333 | BAGHOUSE |
| C001334 | BAGHOUSE |
| C001335 | BAGHOUSE |
| C001336 | BAGHOUSE |
| C001337 | BAGHOUSE |
| C001338 | BAGHOUSE |
| C001339 | BAGHOUSE |
| C001340 | BAGHOUSE |
| C001343 | BAGHOUSE |
| C001462 | BAGHOUSE |
| C001463 | BAGHOUSE |
| C001464 | BAGHOUSE |
| C001465 | BAGHOUSE |
| C001466 | BAGHOUSE |
| C001467 | BAGHOUSE (6-DC-23) |
| C001469 | BAGHOUSE |
| C001471 | BAGHOUSE |
| C001808 | BAGHOUSE |
| C001809 | BAGHOUSE |
| C001870 | BAGHOUSE |
| C002111 | BAGHOUSE (6-DC-24) |
| C002229 | BAGHOUSE |
| C002406 | BAGHOUSE FOR FM 4 ROLL PRESS (5-DC-41) |
| C002782 | BAGHOUSE |
| C002785 | BAGHOUSE |
| C003209 | BAGHOUSE FOR GYPSUM UNLOADING (5-DC-23) |
| C003236 | BAGHOUSE FOR TYPE III LOADOUT (6-DC-26) |
| ~~C003949~~ | ~~BAGHOUSE FOR SAND PLANT (1-DC-1)~~ |
| ~~C004289~~ | ~~BAGHOUSE FOR SAND PLANT (1-DC-2)~~ |
| ~~C004290~~ | ~~BAGHOUSE FOR SAND PLANT (1-DC-3)~~ |
| C005164 | OSEPA BAGHOUSE FOR FINISH MILL NO. 2 (5-DC-24) |

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| District Permit No. | Permit Description |
|---|---|
| C008145 | DUST COLLECTOR FOR SAND PLANT (1-DC-4) |
| C008146 | DUST COLLECTOR FOR SAND PLANT (1-DC-5) |
| C008147 | DUST COLLECTOR FOR SAND PLANT (1-DC-6) |
| C008148 | DUST COLLECTOR FOR SAND PLANT (1-DC-7) |
| C008149 | DUST COLLECTOR FOR SAND PLANT (1-DC-8) |
| C008150 | DUST COLLECTOR FOR SAND PLANT (1-DC-9) |
| C008151 | DUST COLLECTOR FOR SAND PLANT (1-DC-10) |
| C009579 | OSEPA DUST COLLECTOR FOR FINISH MILL NO. 4 (5-DC-3) |
| C009581 | DUST COLLECTOR FOR SAND PLANT (1-DC-11) |
| C009583 | DUST COLLECTOR FOR CLINKER DOME (4-DC-49), fan 4-FA-129 |
| C009585 | DUST COLLECTOR FOR CLINKER DOME (4-DC-50), FAN 4-FA-130 |
| C009587 | DUST COLLECTOR FOR CLINKER DOME (4-DC-53), FAN 4-FA-128 |
| C009656 | DUST COLLECTOR (6-DC-27) |
| C011253 | DUST COLLECTOR (4-DC-54) |
| C011737 | DUST COLLECTOR FOR LIME INJECTION STORAGE SILO |
| C012290 | DUST COLLECTOR FOR DUST SHUTTLING SYSTEM (5-DC-19) |
| C012292 | DUST COLLECTOR FOR FINISH MILL 1 (5-DC-8) |
| C012293 | DUST COLLECTOR FOR TYPE III LOADOUT (6-DC-28) |
| C012320 | DUST COLLECTOR FOR CLINKER BREAKER FUGITIVE DUST |
| C012738 | ACTIVATED CARBON INJECTION SYSTEM |
| C012739 | DUST COLLECTOR FOR FINISH MILL 1 (5-DC-51) |
| C012740 | DUST COLLECTOR FOR FINISH MILL 2 (5-DC-52) |
| C013459 | DUST COLLECTOR FOR FM 4 ROLL PRESS (5-DC-41A) |
| C013987 | DUST COLLECTOR FOR FM 4 ROLL PRESS (5-DC-42) |
| C013988 | DUST COLLECTOR FOR FM 4 ROLL PRESS (5-DC-43) |
| C014322 | DUST COLLECTOR FOR CLINKER DOME (4-DC-51) |
| C014323 | DUST COLLECTOR FOR CLINKER DOME (4-DC-61) |
| C014325 | DUST COLLECTOR FOR CLINKER COOLER TRANSFER (4-DC-14) |
| E012736 | DIESEL IC ENGINE, PORTABLE, EMERGENCY/DRP GENERATOR (733-008) |
| E012737 | DIESEL IC ENGINE, PORTABLE, EMERGENCY/DRP GENERATOR (733-009) |
| N007349 | GASOLINE DISPENSING FACILITY (NON-RETAIL) |
| T000971 | RAW MATERIAL SILOS |
| T000985 | SILO - SOUTH CEMENT STORAGE |
| T000987 | SILO - NORTH CEMENT STORAGE |
| T001030 | CLINKER LOADOUT SYSTEM |
| T001031 | STORAGE - CLINKER BIN |
| T001869 | STORAGE - CEMENT |
| T002090 | STORAGE - RAW MIX BLENDING |

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| District Permit No. | Permit Description |
|---|---|
| T002091 | STORAGE - RAW ADDITIVE |
| T002092 | SILO - STORAGE |
| T002093 | STORAGE - CLINKER |
| T002094 | STORAGE - CLINKER |
| T002095 | SILO - STORAGE FOR ADDITIVES |
| T002096 | STORAGE - GYPSUM AND KILN DUST |
| T002097 | SILO - STORAGE |
| T002110 | SILO - CEMENT STORAGE AND TRANSFER |
| T002139 | STORAGE - GYPSUM/CLAY |
| T002228 | TANK - CLINKER HOLDING SYSTEM |
| T003235 | SILO - TRUCK LOADOUT |
| ~~T004299~~ | ~~WHITE SAND SILOS & BAGGING STATION~~ |
| T005181 | STORAGE TANK FOR WASTE OIL |
| T010019 | SILO, LIMESTONE |

2. Cancelled Equipment:

| District Permit No. | Permit Description |
|---|---|
| B002087 | UNLOAD GYPSUM OR ADMX |
| B003512 | DIESEL IC ENGINE, PORTABLE, LOW-USE COMPRESSOR (871-023) |
| B003513 | DIESEL IC ENGINE, PORTABLE, LOW-USE COMPRESSOR (871-010) |
| B003515 | DRILL – MOBILE ROCK |
| B004642 | DIESEL ENGINE |
| B009463 | DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR (871-030) |
| B009464 | DIESEL IC ENGINE, PORTABLE, LOW-USE WELDER (725-046) |
| B009465 | DIESEL IC ENGINE, PORTABLE, LOW-USE WELDER (725-047) |
| B009467 | DIESEL IC ENGINE, PORTABLE, LOW-USE GENERATOR (733-001) |
| B009469 | DIESEL IC ENGINE, PORTABLE, LOW-USE AIR COMPRESSOR (871-029) |
| B009470 | DIESEL IC ENGINE, PORTABLE, LOW-USE AIR COMPRESSOR (871-031) |
| B009472 | DIESEL IC ENGINE, PORTABLE, LOW-USE AIR COMPRESSOR (871-032) |
| C000963 | DUST COLLECTOR |
| C000998 | BAGHOUSE |
| C001004 | DUST COLLECTOR |
| C001015 | BAGHOUSE |
| C001044 | DUST COLLECTOR |
| C001341 | DUST COLLECTOR |
| ~~C001342~~ | ~~DUST COLLECTOR (4-DC-14)~~ |
| C001473 | DUST COLLECTOR |
| C002101 | DUST COLLECTOR |
| C002783 | DUST COLLECTOR |
| C003991 | DUST COLLECTOR |
| C008483 | DUST COLLECTOR |
| C009332 | DUST COLLECTOR |
| C009584 | DUST COLLECTOR |
| C009586 | DUST COLLECTOR |
| C012321 | DUST COLLECTOR FOR CLINKER HANDLING FUGITIVE DUST |
| E007911 | EMERGENCY GENERATOR |
| E007913 | EMERGENCY GENERATOR |
| E008201 | EMERGENCY GENERATOR |
| E008202 | EMERGENCY GENERATOR |
| N002528 | GASOLINE SERVICE STATION – NON-RETAIL |
| T003212 | TANK – WASTE OIL |
| T003213 | TANK – WASTE OIL |

# PART II

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## 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 person shall not build, erect, install, alter, replace, or operate or use any equipment, the use of which may cause the issuance of air contaminants or the use of which may reduce or control the issuance of air contaminants, without first obtaining a written permit from the Air Pollution Control Officer or except as provided in District Rule 202.
[District Rules 201/203]

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

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

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

5. Posting of the permit to operate is required on or near the equipment or as otherwise approved by the APCO/District.
[District Rule 206]
The APCO/District has approved for this facility to maintain the permits to operate in a binder at a central location in the facility, available to District personnel upon request.
[District Rule 1302(C)(2)(a)]

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

7. Permits are not transferable.
[District Rule 209]

8. The Air Pollution Control Officer may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing. In the event of such requirements, the Air Pollution Control Officer shall notify the Owner/Operator in

writing of the required size, number and location of sampling ports; the size and location of the sampling platform: the access to the sampling platform, and the utilities for operating the sampling and testing equipment. The platform and access shall be constructed in accordance with the General Industry Safety Orders of the State of California.
[District Rule 217]

9. The Air Pollution Control Officer may require the Owner/Operator to provide, properly install, maintain in calibration, in good working order and in operation, a stack monitoring system to measure air contaminants when the Owner/Operator installs, operates or uses any equipment which emits 900,000 kilograms (992 tons) per year of carbon monoxide (CO) or 90,000 kilograms (99 tons) per year or more of any air contaminant except CO.

   The records of the data obtained from the recording devices of the stack monitoring system, specified in Subsections (a) and (b) of District Rule 218, shall clearly indicate concentrations and/or emission rates as specified by the Air Pollution Control Officer. Test records shall be maintained by the Owner/Operator for a period of five years and shall be made available, upon request, to the Air Pollution Control Officer.

   A violation of emission standards of these rules, as shown by the stack monitoring system specified in Subsection (a) of District Rule 218, shall be reported by the Owner/Operator to the Air Pollution Control Officer within 96 hours.

   The Owner/Operator operating a stack monitoring system, specified in Subsection (a) or District Rule 218, shall, upon written notice from the Air Pollution Control Officer, provide a summary of the emission data obtained from such systems. The summary of the data shall be in the form and the manner prescribed by the Air Pollution Control Officer.

   The Owner/Operator operating or using a stack monitoring system required by this rule shall notify the Air Pollution Control Officer within 48 hours in the event of monitoring equipment shutdown or a breakdown of one hour duration or more.

   The Air Pollution Control Officer may inspect, as he determines to be necessary, the monitoring devices required by this rule to insure that such devices are functioning properly.

   A stack monitoring system required to be installed by this rule shall be of a type specified by the California Air Resources Board pursuant to Section 42702 of the Health and Safety Code, or of a type approved by the Air Pollution Control Officer.
   [District Rule 218]

10. 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 District Rule 219 and meets the applicable criteria contained in District Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.

[District Rule 219]

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

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

13. Owner/Operator shall pay all applicable MDAQMD Title V permit fees.
[District Rule 312]

14. Owner/Operator shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is
    (a) As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
    (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke that is designated No. 1 on the Ringelmann Chart.:
    (c) Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with District Rule 401 Visible Emissions limit as indicated below:
        (i) All NSPS units (see Appendix C).
        (ii) All NESHAP units (see Appendix C).
        (iii) All solid materials handling units not subject to NSPS or NESHAP quarterly visible emissions monitoring.

    [District Rule 204, District Rule 401]
    [40 CFR 70.6 (a)(3)(i)(B)]

15. Owner/Operator shall not burn any PUC quality natural gas fuel at this facility containing sulfur compounds in excess of 800 ppm calculated as hydrogen sulfide at standard conditions, or any diesel fuel having a sulfur content in excess of 0.5 percent by weight.

    Compliance with District Rule 431 sulfur limit for PUC quality natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site for review by District, state or federal personnel at any time. Compliance with District Rule 431 sulfur limit for diesel fuel shall be determined by keeping records of the diesel fuel supplier's fuel analysis guarantee showing fuel sulfur content. The sulfur content of diesel fuel shall be determined by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).
    [District Rule 431]
    [40 CFR 70.6 (a)(3)(i)(B)]

16. 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.
[District Rule 403]

17. Owner/Operator shall comply with the applicable requirements of District Rule 403.2 unless an "Alternative $PM_{10}$ Control Plan" (ACP) pursuant to District Rule 403.2(G) has been approved. Construction/Demolition activities shall comply with a District approved Dust Control Plan.
[District Rule 403.2]

18. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in District Rule 404, Table 404 (a).
    (a) Where the volume discharged is between figures listed in the table, the exact concentration permitted to be discharged shall be determined by linear interpolation.
    (b) This condition shall not apply to emissions resulting from the combustion of diesel or PUC quality natural gas fuels in steam generators or gas turbines.
    (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
    [District Rule 404]

19. Owner/Operator shall not discharge into the atmosphere from any source at this facility, solid particulate matter including lead and lead compounds in excess of the rate shown in District Rule 405, Table 405(a).
    (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
    (b) For the purposes of this condition emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
    [District Rule 405]

20. Owner/Operator shall not discharge into the atmosphere, from any single source of emissions at this facility whatsoever, Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide ($SO_2$) greater than or equal to 500 ppm by volume.
    [District Rule 406]
    [40 CFR 70.6 (a)(3)(i)(B)]

21. Owner/Operator shall not discharge into the atmosphere from any source at this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.
    (a) The provisions of this condition shall not apply to emissions from internal combustion engines.
    [District Rule 407]

22. 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 which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.

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

[District Rule 408]

23. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide ($CO_2$) at standard conditions averaged over a minimum of 25 consecutive minutes.
[District Rule 409]

24. APCO in his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment which has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred per District Rule 430 and the facility has elected to provide immediate notification under District Rule 430, and:
(a) Any breakdown which 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 Air Pollution Control Officer.

[District Rule 430]

25. 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 District 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.
[District Rule 431]

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

(a) Shall not discharge VOCs into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes subject to District Rule 442, in excess of 540 kilograms (1,190 pounds) per month at this Facility.
  (i) Compliance with the VOC limit above may be obtained through use of any of the following or any combination thereof:
    a. Product reformulation or substitution;
    b. Process changes;
    c. Improvement of operational efficiency;
    d. Development of innovative technology;
    e. Operation of emission collection and control system that reduces overall emissions by eighty-five percent (85%).

(b) Shall not discharge into the atmosphere a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average. For purposes of VOC quantification, discharge shall include a drying period of 12 hours following the application of such non-VOC solvents.

(c) The provisions of this condition shall not apply to:
  (i) The manufacture, transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
  (ii) The emissions of VOCs from VOC-containing materials or equipment which are subject to District Regulation IV rules or which are exempt from air pollution control requirements by such rules.
  (iii) The use of pesticides including insecticides, rodenticides or herbicides.
  (iv) The use of 1,1,1 trichloroethane, methylene chloride and trichlorotrifluroethane.
  (v) Aerosol products.
  (vi) VOC containing materials or equipment which is 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]

27. Owner/Operator shall not set open outdoor fires unless in compliance with District Rule 444. Outdoor fires burned according to an existing District permit are not considered "open outdoor fires" for the purposes of Rule 444 (reference District Rule 444(B)(9)). [District Rule 444]

28. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of District Rule 1104 when engaged in wipe cleaning, cold solvent

cleaning and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. Some of these requirements are listed as follows:

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

(b) Control Equipment
  (i) Owners and/or Operators may comply with subsection (C)(1)(a) of District Rule 1104 by using approved air pollution Control Equipment provided that the VOC emissions from such operations and/or materials are reduced in accordance with the following:
    a. The Control Equipment shall reduce emissions from an emission collection system by at least 95 percent (95%), by weight, or by reducing the output of the air pollution Control Equipment to less than 25 ppm calculated for carbon with no dilution; and
    b. The Owner/Operator demonstrates that the system collects at least 90 percent (90%), by weight, of the emissions generated by the sources of emissions.

(c) Cleaning Equipment and Method Requirements
  (i) An Owner/Operator shall not perform Solvent cleaning unless one of the cleaning devices or methods contained in subsections a. through e. below is used, and the applicable requirements in subsections f. through k. below are used:
    a. Wipe Cleaning;
    b. Closed containers or hand held spray bottles from which Solvents are applied without a propellant-induced force;
    c. Cleaning Equipment which as a Solvent container that can be, and is closed during non-operation with the exception of maintenance and repair to the Equipment itself;
    d. Non-atomized Solvent flow method where the cleaning Solvent is collected in a container or a collection system which is closed except for Solvent collection openings and, if necessary, openings to avoid pressure build-up inside the container; or
    e. Solvent flushing method where the cleaning Solvent is discharged into a container which is closed except for Solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container. The discharged Solvent from the Equipment must be collected into containers without atomizing into the open air. The Solvent may be flushed through the system by air or hydraulic pressure, or by pumping.
    f. All Degreasers shall be equipped with the following:
      1. An apparatus or cover(s) which reduces Solvent Evaporation,

except for Remote Reservoirs.

2. A permanent, conspicuous label summarizing the applicable operating requirements contained in subsection (C)(4) of District Rule 1104. In lieu of a label, operating instructions may be posted near the Degreaser where the Operators can access the proper operating requirements of District Rule 1104.

g. Remote Reservoirs shall be equipped with the following:
   1. A sink, platform or work area which is sloped sufficiently towards a drain to prevent pooling of Solvent within the work area.
   2. A single or total drain hole area, not larger than 100 square centimeters (15.5 square inches) in area, for the Solvent to flow from the sink (platform/work area) into the Enclosed Reservoir.
   3. If High Volatility Solvent is used, a drain cover/plug/closure device or a cover for placement over the top of the sink (platform/work area), when the Equipment is not being used, cleaned or repaired.
   4. A minimum sink depth of six (6) inches, as measured from the top of the drain to the top of the side of the sink.

h. Cold Solvent Degreasers - Freeboard Requirements:
   1. Cold Solvent Degreasers using only Low Volatility Solvents which are not agitated, shall operate with a Freeboard Height of not less than six (6) inches.
   2. Cold Solvent Degreasers using only Low Volatility Solvents may operate with a Freeboard Ratio equal to or greater than 0.50 when the Cold Solvent Degreaser has a cover which remains closed during the cleaning operation.
   3. Any Cold Solvent Degreasers using Solvent which is agitated, or heated above 50 degrees Celsius (120 degrees Fahrenheit) shall operate with a Freeboard Ratio equal to or greater than 0.75.
   4. A water cover may be used as an acceptable control method to meet the freeboard requirements, when the Solvent is insoluble in water and has a specific gravity greater than one (1).
   5. Cold Solvent Degreasers using High Volatility Solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type which is designed to easily open and close without disturbing the vapor zone.
   6. A permanent, conspicuous mark locating the maximum allowable Solvent level conforming to the applicable freeboard requirements.

i. Conveyorized Cold Solvent Degreasers shall be equipped with the following:

1. A rotating basket or other method, to prevent cleaned parts from carrying out Solvent liquid.
2. Minimized entrance and exit openings which silhouette the Workloads such that the average clearance between material and the edges of the cleaner openings are less than 10 centimeters (4 inches) or less than ten (10) percent of the opening width, whichever is greater.
3. A Freeboard Ratio equal to or greater than 0.75.
4. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy requirement of subsection (C)(3)(i)(iii) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters per minute per square meter of Solvent cleaner opening (at each Air-Vapor Interface), unless the rate must be changed to meet Federal and State Occupational Safety and Health Administration requirements, and is approved in writing by the Air Pollution Control Officer (APCO).

j. Batch-loaded Vapor Degreasers shall be equipped with the following:
   1. A cover that is a sliding, rolling or guillotine (bi-parting) type which is designed to easily open and close without disturbing the vapor zone.
   2. A Vapor Level Control Thermostat, a Condenser Flow Switch and a Spray Safety Switch.
   3. A Freeboard Ratio greater than or equal to 0.75.
   4. A Primary Condenser.
   5. In addition, Degreasers with an Evaporative Surface Area greater than or equal to one (1) square meter, shall be equipped with a Refrigerated Freeboard Chiller for which the chilled air blanket temperature (degrees Fahrenheit) at the coldest point on the vertical axis in the center of the Air-Vapor Interface shall be no greater than 30 percent of the Initial Boiling Point (degrees Fahrenheit) of the Solvent used, or 40 degrees Fahrenheit, whichever is greater. (If the chiller operates below the freezing temperature of water, it shall be equipped with an automatic defrost).
   6. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy the requirements of subsections (C)(3)(j)(i) and(iii) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters per minute per square meter of Solvent cleaner opening (at each Air-Vapor Interface), unless the rate

must be changed to meet Federal and/or State Occupational Safety and Health Administration requirements, and is approve in writing by the APCO.

k. Conveyorized Vapor Degreasers shall be equipped with the following:
   1. An enclosed drying tunnel or other method, such as a rotating basket, sufficient to prevent cleaned parts from carrying out Solvent liquid or vapor.
   2. Minimized entrance and exit openings which silhouette the Workloads such that the average clearance between material and the edges of the Degreaser openings are less than ten (10) centimeters (four (4) inches) or less than ten (10) percent of the opening, whichever is greater.
   3. A Primary Condenser.
   4. A Freeboard Ratio equal to or greater than 0.75.
   5. A vapor control thermostat, a Condenser Flow Switch, and a Spray Safety Switch.
   6. Additionally, a Refrigerated Freeboard Chiller for which the chilled air blanket temperature (degrees Fahrenheit) at the coldest point on the vertical axis in the center of the Air-Vapor Interface shall be no greater than 30 percent of the Initial Boiling Point (degrees Fahrenheit) of the Solvent used, or 40 degrees Fahrenheit, whichever is greater. (If the chiller operates below the freezing temperature of water, it shall be equipped with an automatic defrost).
   7. Alternately, a hood or enclosure to collect emissions which are vented to Control Equipment may be used to satisfy requirements of subsections (C)(3)(k)(iv) and (vi) of District Rule 1104, provided that the air pollution Control Equipment meets the provisions of subsection (C)(2) of District Rule 1104. The collection system shall have a ventilation rate of 15-20 cubic meters/min per square meter of Degreaser opening (at each Air-Vapor Interface), unless the rate must be changed to meet Federal and State Occupational Safety and Health Administration requirements, and is approved in writing by the District APCO.

(d) Operating Requirements

(i) All Degreasers shall comply with the following:

a. Any Solvent cleaning Equipment and any emission Control Equipment shall be operated and maintained in strict accord with the recommendations of the manufacturer.

b. Degreasers shall not be operating with any detectable Solvent Leaks.

c. All Solvent, including Waste Solvent, Waste Solvent residues, and used applicators shall be stored in closed containers at all times. All containers for any Solvent(s) shall have a label indicating the name of the Solvent/material they contain.

d. Waste Solvent and any residues shall be disposed of by one of the following methods: a commercial Waste Solvent reclamation service licensed by the State of California; or a federally or state licensed Facility to treat, store or dispose of such Waste; or the originating Facility may recycle the Waste Solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.

e. Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.

f. Solvent carry-out shall be minimized by the following methods:
   1. Rack Workload arranged to promote complete drainage.
   2. Limit the vertical speed of the power hoist to 3.3 meters per minute (11 feet per minute) or less when such a hoist is used.
   3. Retain the Workload inside of the vapor zone until condensation ceases.
   4. Tip out any pools of Solvent remaining on the cleaned parts before removing them from the Degreaser if the Degreasers are operated manually.
   5. Do not remove parts from the Degreaser until the parts are visually dry and not dripping/leaking Solvent. (This does not apply to an Emulsion cleaner Workload that is rinsed with water within the Degreaser immediately after cleaning.)

g. The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.

h. Except for Sealed Chamber Degreasers, all Solvent agitation shall be by either pump recirculation, a mixer, or Ultrasonics.

i. The Solvent spray system shall be used in a manner such that liquid Solvent does not splash outside of the container. The Solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.

j. For those Degreasers equipped with a water separator, no Solvent shall be visually detectable in the water in the separator.

k. Wipe Cleaning materials, including shop towels, containing Solvent shall be kept in closed containers at all times, except during use.

l. Cleaning operations shall be located so as to minimize air circulation and drafts being directed across the cleaning Equipment, the exposed Solvent surface, or the top surface of the vapor blanket.

m. A method for draining cleaned material, such as a drying rack suspended above the Solvent and within the freeboard area, shall be used so that the drained Solvent is returned to the Degreaser or container.

(ii) Batch-loaded and Conveyorized Degreasers shall, in addition to the requirements in subsection (C)(4)(a), meet the following operating requirements:

a. When starting the Degreaser, the cooling system shall be turned on

before, or simultaneously with, the sump heater.

b. When shutting down the Degreaser, the sump heater shall be turned off before, or simultaneously with, the cooling system.

c. The Workload Area shall not occupy more than half of the Evaporative Surface Area of the Degreaser.

d. Except for Sealed Chambers, the spray must be kept at least ten (10) centimeters (four (4) inches) below the top of the vapor level and be pointed downward, to prevent turbulence at the air-Solvent vapor interface.

(iii) Remote Reservoir Degreasers shall, in addition to the applicable requirements in subsection (C)(4)(a) of District Rule 1104, meet the following operating requirements:

a. The Solvent pump shall not circulate Solvent into the sink unless a Workload is being actively processed.

b. The sink of a Remote Reservoir Degreaser or any container placed therein may not be used to soak a Workload. Such use is prohibited and such use will cause the unit to be classified as a Cold Solvent Degreaser and be subject to provisions of subsection (C)(3)(h) of District Rule 1104.

c. Parts shall be visually dry and not dripping/leaking Solvent before being removed from the sink. Parts shall be tipped to release any trapped pools of Solvent before being removed from the sink. (iv) The Workload must "drip-dry" while being contained completely within the sink.

[District Rule 1104]

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

Table 1
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

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Limits are expressed in grams of VOC per liter[a] of Coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, Exempt Compounds, or Colorant added to tint bases. "Manufacturer's maximum recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the Coating container.

| **Coating Category** | **Effective, 01/01/2013** |
|---|---|
| **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 Finishing 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] |
| Magnesite Cement Coatings | 450 |
| Mastic Texture Coatings | 100 |
| Metallic Pigmented Coatings | 500 |
| Multi-Color Coatings | 250 |
| Pre-Treatment Wash Primers | 420 |
| Primers, Sealers, and Undercoaters | 100 |
| Reactive Penetrating Sealers | 350 |
| Recycled Coatings | 250 |
| Roof Coatings | 50 |
| Rust Preventative Coatings | 250 |
| Shellacs: | |
| Clear | 730 |
| Opaque | 550 |
| Specialty Primers, Sealers, and Undercoaters | 100 |
| Stains | 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 |
| a: Limit is expressed as VOC Actual (G)(1)(a)(ii) | |

Table 2
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Effective January 1, 2013 the coating categories in Table 2 are eliminated and will be subject to the VOC limit of the applicable category in Table 1, except as provided in Section (C)(2), (C)(3), and (C)(5) of District Rule 1113.

Limits are expressed in grams of VOC per liter of Coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, Exempt Compounds, or Colorant added to tint bases. "Manufacturer's maximum recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

| **Coating Category** | **Effective 02/24/2003** |
|---|---|
| Antenna Coatings | 530 |
| Antifouling Coatings | 400 |
| Clear Wood Coatings | |
| Clear Brushing Lacquers | 680 |
| Lacquers (including lacquer sanding sealers) | 550 |
| Sanding Sealers (other than lacquer sanding sealers) | 350 |
| Varnishes | 350 |
| Fire-Retardant Coatings: | |
| Clear | 650 |
| Opaque | 350 |
| Flow Coatings | 420 |
| Quick-Dry Enamels | 250 |
| Quick-Dry Primers, Sealers, and Undercoaters | 200 |
| Swimming Pool Repair and Maintenance Coatings | 340 |
| Temperature-Indicator Safety Coatings | 550 |
| Waterproofing Sealers | 250 |
| Waterproofing Concrete/Masonry Sealers | 400 |

[District Rule 1113]

30. Owner/Operator must comply with the requirements of District Rule 1114 when engaged in Wood Products Coating Operations, as defined by this rule, including the Coating VOC limits specified below:
    (a) Owner/Operator shall not apply any coatings to a New Wood Product if such materials have a VOC Content exceeding the applicable limits specified in Table 1 of this condition. The VOC Content of Coatings, except Low-Solids Stains, Toners, Washcoats and Solvents shall be determined in accordance with subsection (G)(4)(a)(i) and (G)(2)(a) of District Rule 1114. The VOC Content of Low-Solids Stains, Toners, Washcoats and Solvents shall be determined in accordance with subsection (G)(4)(a)(ii) and (G)(2)(a) of District Rule 1114. VOC limits expressed in grams VOC per liter of Coating less Exempt Compounds.

Table 1
VOC CONTENT OF COATINGS AND ADHESIVES FOR NEW WOOD PRODUCTS

| Coating Category | Effective 01/31/2019 |
|---|---|
| General | 275 |
| Clear Sealers | 275 |
| Clear Topcoats | 275 |
| Pigmented Primers, Sealers, and Undercoats | 275 |
| Pigmented Topcoats | 275 |
| Fillers | 275 |
| High-Solids Stains | 350 |
| Inks | 500 |
| Mold Seal | 750 |
| Multi-Colored Coatings | 275 |
| Low-Solids Stains, Toners and Washcoats | 120 |
| Adhesives | 250 |
| Conversion Varnish | 550 |

(b) Except as provided in subsections (C)(4) or (C)(5) of District Rule 1114, no Person shall apply any Coatings to refinish, repair, preserve or restore a wood product if such materials have a VOC Content exceeding the applicable limits specified in Table 2 of this condition. The VOC Content of Coatings, except Low-Solids Stains, Toners, Washcoats and Solvents shall be determined in accordance with subsection (G)(4)(a)(i) and (G)(2)(a) of District Rule 1114. The VOC Content of Low-Solids Stains, Toners, Washcoats and Solvents shall be determined in accordance with subsection (G)(4)(a)(ii) and (G)(2)(a) of District Rule 1114. VOC limits expressed in grams VOC per liter of Coating less Exempt Compounds.

Table 2
VOC CONTENT OF COATINGS AND ADHESIVES FOR REFINISHING, REPAIRING, PRESERVING OR RESTORING WOOD PRODUCTS

| Coating Category | Effective 01/22/2018 |
|---|---|
| General | 420 |
| Clear Topcoats | 680 |
| Conversion Varnishes | 550 |
| Fillers | 500 |
| High-Solid Stains | 700 |
| Inks | 500 |
| Medium Density Fiberboard (MDF) Coatings | 680 |
| Mold-Seal Coating | 750 |
| Multi-Colored Coatings | 680 |
| Pigmented Coatings | 600 |
| Sealers | 680 |
| Low-Solids Stains, Toners and Washcoats | 480 |

| | |
|---|---|
| Any other Solids Coatings | 480 |

[District Rule 1114]

31. Owner/Operator must comply with the requirements of District Rule 1115 when engaged in metal coating operations, as defined in this rule. These rules include the Coating the VOC coating limits specified below:

(a) Owner/Operator shall not apply to Metal Parts and Products, as defined in District Rule 1115, any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 90 percent:

VOC CONTENT LIMITS FOR METAL PARTS AND PRODUCTS COATINGS
(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

| **Coating** | **Air Dried g/L (lb/gal)** | **Baked g/L (lb/gal)** |
|---|---|---|
| General One-Component* | 340 (2.8) | 275 (2.3) |
| General Multi-Component* | 340 (2.8) | 275 (2.3) |
| Military Specification | 340 (2.8) | 275 (2.3) |
| Etching Filler | 420 (3.5) | 420 (3.5) |
| Solar-Absorbent | 420 (3.5) | 360 (3.0) |
| Heat-Resistant | 420 (3.5) | 360 (3.0) |
| High-Gloss | 420 (3.5) | 360 (3.0) |
| Extreme High-Gloss | 420 (3.5) | 360 (3.0) |
| Metallic | 420 (3.5) | 420 (3.5) |
| Extreme Performance | 420 (3.5) | 360 (3.0) |
| Prefabricated Architectural One-Component | 420 (3.5) | 275 (2.3) |
| Prefabricated Architectural One-Component | 420 (3.5) | 275 (2.3) |
| Touch Up | 420 (3.5) | 360 (3.0) |
| Repair | 420 (3.5) | 360 (3.0) |
| Silicone-Release<br>High Performance Architectural | 420 (3.5)<br>420 (3.5) | 420 (3.5)<br>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) |
| Drum (New, Exterior) | 340 (2.8) | 340 (2.8) |
| Drum (New, Interior) | 420 (3.5) | 420 (3.5) |
| Drum (Reconditioned, Exterior) | 420 (3.5) | 420 (3.5) |
| Drum (Reconditioned, Interior) | 500 (4.2) | 500 (4.2) |
| Chemical Agent Resistant | 420 (3.5) | 420 (3.5) |

*A General Coating is a Coating that does not meet a specific Coating category definition and is assumed to be a general use Coating and subject to the VOC limit for a General Coating.

[District Rule 1115]
[40 CFR 70.6 (a)(3)(i)(B)]

32. Owner/operator must comply with the requirements of District Rule 1160 – Internal Combustion Engines, as applicable.
    (a) District Rule 1160 applies to any stationary Internal Combustion Engine rated at 50 or more brake horsepower (bhp), when located within the Federal Ozone Non-attainment Area, that does not meet the following:
        (i) Any Internal Combustion Engine rated at less than 50 brake horsepower.
        (ii) Any Internal Combustion Engine operated less than 100 hours in any rolling twelve (12) month period.
        (iii) Any Internal Combustion Engine subject to the Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines rated at 50 Horsepower and Greater, Title 17 CCR 93116, or otherwise classified as a Portable Internal Combustion Engine.
        (iv) Any Internal Combustion Engine that is an Emergency Internal Combustion Engine provided that the Internal Combustion Engine does not operate more than 100 hours for non-emergency use in any rolling twelve (12) month period.
        (v) Any Internal Combustion Engine operated on an engine test stand.
        (vi) Any Internal Combustion Engine subject to District Rule 1160.1 – Internal Combustion Engines in Agricultural Operations.
        (vii) Any Internal Combustion Engine located outside the Federal Ozone Non-attainment Area.
        (viii) Any Internal Combustion Engine registered with a Statewide Portable Equipment Registration (PERP), provided that the Internal Combustion Engine is operating in compliance with the Regulation to Establish a Statewide Portable Equipment Registration Program, Title 13 CCR 2450, and for which the Internal Combustion Engine does not require a local District Permit.
    (b) Emission Limits
        (i) $NO_X$ Emissions
            a. Internal Combustion Engines subject to District Rule 1160 shall not exceed the following emission limits in Table 1, unless compliance is demonstrated using an Alternative Compliance

Strategy pursuant to subsection (C)(2) of District Rule 1160.

Table 1
$NO_X$ EMISSION LIMITS FOR INTERNAL COMBUSTION ENGINES
(ppmv limitations shall be referenced at 15 percent volume stack gas oxygen measured on a dry basis and averaged over 15 consecutive minutes)

| **Engine Type** | **$NO_X$ Limit** |
|---|---|
| Spark-Ignited Internal Combustion Engine, Rich Burn | 50 ppmv |
| Spark-Ignited Internal Combustion Engine, Lean Burn | 125 ppmv |
| Compression-Ignition Internal Combustion Engine | 80 ppmv |

(ii) VOC Emissions

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

Table 2
VOC EMISSION LIMITS FOR INTERNAL COMBUSTION ENGINES
(ppmv limitations shall be referenced at 15 percent volume stack gas oxygen measured on a dry basis and averaged over 15 consecutive minutes)

| **Engine Type** | **$NO_X$ Limit** |
|---|---|
| Spark-Ignited Internal Combustion Engine, Rich Burn | 106 ppmv |
| Spark-Ignited Internal Combustion Engine, Lean Burn | 106 ppmv |
| Compression-Ignition Internal Combustion Engine | 106 ppmv |

(iii) CO Emissions

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

Table 3
CO EMISSION LIMITS FOR INTERNAL COMBUSTION ENGINES
(ppmv limitations shall be referenced at 15 percent volume stack gas oxygen measured on a dry basis and averaged over 15 consecutive minutes)

| **Engine Type** | **$NO_X$ Limit** |
|---|---|
| Spark-Ignited Internal Combustion Engine, Rich Burn | 4500 ppmv |
| Spark-Ignited Internal Combustion Engine, Lean Burn | 4500 ppmv |
| Compression-Ignition Internal Combustion Engine | 4500 ppmv |

[District Rule 1160]

33. Owner/Operator must comply with District Rule 1161 – Portland Cement Kilns, as

applicable. The Portland Cement kiln shall comply with the following requirements:

(a) $NO_X$ Reduction Technologies
  (i) The Owner/Operator of a kiln subject to District Rule 1161 shall operate such equipment with $NO_X$ RACT. RACT shall be specific to the type of kiln being Operated, and can include - but is not limited to any one, or a combination of, the following:
    a. Combustion Controls
    b. Low $NO_X$ burners
    c. Staged combustion
    d. $NO_X$-reducing fuels or substances (includes tire-derived fuels).

(b) $NO_X$ RACT Emission Limits – All periods except Start-up and Shut-down
  (i) The Owner/Operator of a kiln subject to District Rule 1161 shall not exceed the following NOx emission limits, calculated pursuant to Section (E)(1)(b) of District Rule 1161, during periods of operation other than Start-up and Shut-down:
    a. For Preheater-Precalciner Kilns: 2.8 lb/ton of clinker produced when averaged over any 30 consecutive day period; or,
    b. For a Portland Cement Kiln operating with over fifteen (15) percent of Heat Input from any combination of Low-Carbon Fuels: 3.4 lb/ton of Clinker produced when averaged over any 30 consecutive day period.

(c) NOx RACT Emission Limits –Start-up and Shut-down Periods
  (i) The Owner/Operator of a kiln subject to District Rule 1161 shall not exceed the following limits during Start-up and Shut-down periods:
    a. For Preheater-Precalciner Kilns manufactured by Allis Chalmers whose construction was completed in 1982: 17,616 lb $NO_X$/day
    b. For Preheater-Precalciner Kilns manufactured by Humboldt-Wedag whose construction was completed in 1984: 28,160 lb $NO_X$/day
    c. For all other Kiln types: maximum heat input of 4,500 MMBtu/day/Kiln

(d) Additional Start-up and Shut-down Requirements
    a. The frequency and duration of Operation in Start-up or Shut-down mode will be minimized to the maximum extent practicable, and in no case shall the duration of the Start-up or Shut-down period exceed 36 hours;
    b. All possible steps will be taken to minimize the impact of emissions during Start-up and Shut-down on ambient air quality;
    c. The facility must be Operated in a manner consistent with good practice for minimizing emissions, and the source must have used best efforts regarding planning, design and operating procedures to meet the applicable emission limitation; and
    d. The Owner/Operator's actions during Start-up and Shut-down periods must be documented by contemporaneous operating logs

signed by the operator on duty at the time of Start-up or Shut-down or other relevant evidence.

(e) Alternative Compliance Strategy

(i) As an alternative to complying with the limits specified in Section (C)(2) of District Rule 1161 on a Permit Unit basis, the Owner or Operator of a Kiln subject to this District Rule 1161 may be allowed to aggregate $NO_X$ Emissions from all cement Kilns at a single Facility, subject to the following conditions:

a. The Owner or Operator must request, in writing, to Aggregate Emissions pursuant to the Compliance Schedule set forth in Section (I) of District Rule 1161.

b. Aggregating of Emissions must be approved in writing by the District.

c. Aggregating of Emissions shall be allowed only between Kiln types with the same Emission limits, as set forth in Section (C)(2)(a) of District Rule 1161.

d. The Aggregated Emissions Limit for NOx shall be less than or equal to ninety percent (90%) of the sum of the total NOx Emissions from all Kilns at a Facility, as allowed pursuant to Section (C)(2) of District Rule 1161.

e. The Aggregate Emissions per ton of Clinker shall be calculated as the Aggregate Emissions divided by the Facility Clinker production sum for the same period. When this option is approved, the aggregated NOx Emissions per Clinker ton will be used to comply with the NOx RACT Emission Limit.

f. Regardless of method of compliance employed (Permit Unit limit or Aggregate Emission Limit), and prior to implementation, the applicable Emission limits and method of compliance shall be incorporated into the District Permit to Operate (PTO) for each Kiln.

(f) Compliance Determination

(i) Any Owner or Operator of a Kiln subject to District Rule 1161 shall make the following determinations, as set forth herein:

a. Compliance determinations shall not be established from data obtained during the periods specified in Section (G) – Exemptions.

b. Emission Calculation Method (i) Emissions shall be calculated by dividing the sum of all hourly lb of NOx for the current operating day and the preceding 29 operating days by the tons of Clinker produced over the same period of time. Such calculations shall exclude any Emissions and Clinker produced during those time periods specified in Section (G) – Exemptions, and during Start-up and Shut-down.

c. Any Owner or Operator of a Kiln subject to Rule 1161 shall convert observed NOx concentrations to a mass emission rate using the following formula (for purposes of this calculation, standard conditions are @ 68 ⍰F and 29.92 inches Hg):

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

d. For the purposes of Rule 1161, Oxides of Nitrogen shall be calculated as NO2 on a dry basis.

(g) Monitoring and Recordkeeping

(i) Continuous Emissions Monitoring

a. The Owner/Operator of a kiln subject to District Rule 1161 shall not Operate such equipment unless it is equipped with one of the following:

1. A CEMS monitoring system which meets the requirements of 40 CFR Part 60, Subpart A, and Appendix B, and complies with the quality assurance procedures specified in 40 CFR Part 60, Appendix F. The CEMS shall be used to demonstrate compliance with the applicable emission limit, specified pursuant to Section (C)(2) of this rule by measuring $NO_X$ emissions.

2. If an Owner or Operator can demonstrate, by preponderance of the evidence, that installation of a CEMS conforming to the requirements of Section (g)(i)a.1. above is technologically and economically unfeasible, the Owner or Operator may provide an alternate calculation and recordkeeping procedure based upon Actual Emission testing and correlations with operating parameters (such as Kiln loading, fuel-type, percent excess oxygen, etc.). The installation, implementation and use of such an alternate calculation and recordkeeping procedure must be approved by the District, CARB and USEPA, in writing, prior to implementation.

b. The CEMS or approved alternate recordkeeping procedure shall be operated and maintained in strict accordance with the manufacturer's/supplier's specifications and in continual compliance with the provisions of District Rule 1161.

(ii) Recordkeeping Requirements

a. The Owner/Operator of a kiln subject to District Rule 1161 shall produce and maintain CEMS records, or alternate records pursuant to Section (F)(1)(a)(ii) of District Rule 1161, for each affected kiln on a daily basis. Such records shall include, but are not limited to:

1. The emissions, in pounds, of $NO_X$ from each cement kiln if complying with the limit specified in (C)(2) of this rule on a permit unit basis; or

2. The aggregate emissions, in pounds, of $NO_X$ from all cement kilns at a facility, if complying with the limit specified in (C)(2) of District Rule 1161 on an aggregate basis, as approved by the District.

3. The date, time and duration of any start-up, shutdown or malfunction in the Operation of any of the kiln systems or

the emissions monitoring equipment;

4. The results of performance testing, evaluation, calibration checks, adjustments and maintenance of the CEMS or approved alternate recordkeeping procedure employed, pursuant to the requirements of Section (F)(1)(a)(ii) of District Rule 1161.

b. The Owner/Operator of a kiln subject to District Rule 1161 shall produce and maintain daily records of $NO_X$ emission concentrations and $NO_X$ mass emission rate, as required by Section (E)(1)(c) of District Rule 1161.

c. The Owner/Operator of a kiln subject to District Rule 1161 shall produce and maintain daily clinker production records.

d. The Owner/Operator of a kiln subject to District Rule 1161 shall produce and maintain daily records of the type and quantity of fuel used.

e. All records required to be produced or maintained shall be retained on site for a minimum of five years and be made available to the APCO or his designee upon request.

(iii) Emission Reporting

a. Daily $NO_X$ emission data for the calendar quarter compiled pursuant to Section (F)(2)(a)(i) or (ii) of District Rule 1161 shall be submitted to the District. All quarterly reports must be received within 30 days after the end of each quarter.

(h) Exemptions

(i) The requirements of Sections (C) and (D) of District Rule 1161 shall not apply to periods during which any gaseous/liquid fuel is used (except Start-up and Shut-down), and the applicable emission limit is consequently exceeded. This exemption shall be subject to the following conditions:

a. The total allowable exceedance period shall be limited to an aggregate total of 14 calendar days per calendar year; and

b. Operating pursuant to this exemption shall not relieve the owner or operator from the requirements of District Regulations II, XII or XIII; and

c. This exemption shall only apply to periods when there is an interruption in the supply of solid fuel which is beyond the control of the facility; and

d. The frequency and duration of operation under this exemption will be minimized to the maximum extent practicable; and

e. All possible steps will be taken to minimize the impact of emissions on ambient air quality during gaseous or liquid fuel use;

f. The facility must be Operated in a manner consistent with good practice for minimizing emissions, and the source must have used best efforts regarding planning, design and operating procedures to meet the applicable emission limitation; and

g. The Owner/Operator's actions under this exemption must be

documented by properly signed, contemporaneous operating logs, or other relevant evidence.

(i) Test Methods

(i) The following tests shall be used in conducting compliance testing, Relative Accuracy Test Audits (RATA) and other testing required for compliance with this Rule:

a. Compliance testing shall be subject to the protocols prescribed in the District's Compliance Test Procedural Manual.

b. Certification Testing shall be subject to the protocols prescribed in the District's Compliance Test Procedural Manual and 40 CFR 60, Appendix B.

c. Quality Assurance Testing shall be subject to the protocols prescribed in the District's Compliance Test Procedural Manual and 40 CFR Part 60, Appendix F.

d. Oxides of nitrogen stack testing for purposes of this Rule shall be conducted pursuant to EPA Method 7E, "Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)" or CARB Method 100, "Procedures for Continuous Gaseous Emission Stack Sampling (Stack Gas NOx)."

e. Stack gas flow rate testing shall be conducted pursuant to EPA Method 2, "Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pilot Tube)."

f. Oxygen concentration stack testing shall be conducted pursuant to EPA Method 3A, "Determination of 02 and CO2 Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)" or CARB Method 100.

(j) Compliance Schedule

(i) Any Owner or Operator of a Permit Unit subject to Rule 1161 shall comply with all applicable requirements immediately upon adoption, except:

a. Those Owners or Operators following the alternative compliance strategy pursuant to subsection (D)(1) of Rule 1161 shall comply with an Aggregated Emissions Limit for NOx less than or equal to ninety percent (90%) of the sum of the total allowable NOx Emissions from all Kilns at the Facility by April 22, 2002. Prior to that date, such Owners or Operators shall at a minimum comply with an Aggregated Emission Limit for NOx less than or equal to the sum of the total allowable NOx Emissions from all Kilns at the Facility.

(k) Violations

(i) The occurrence of any of the following shall constitute a violation of Rule 1161:

a. Exceedance of the applicable Emission limit specified pursuant to Section (C)(2) of District Rule 1161, unless the Facility has an approved Aggregate Emissions Limit, as set forth in Section (D) of District Rule 1161;

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

[District Rule 1161]

34. 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]

35. This facility is subject to 40 CFR 98, Mandatory Reporting of Greenhouse Gases, specifically the requirements as established in Subpart A (§§ 1 – 9) – General Provisions, and Subpart H (§§80 - 88) – Cement Production.

36. Please see Appendix A for a list of unit categories and a list of applicable requirements by unit category.

37. Owner/Operator must comply with all applicable provisions regarding Standards of Performance for New Stationary Sources set for in 40 CFR 60 (NSPS); and, all applicable provisions regarding National Emissions Standards for Hazardous Air Pollutants (NESHAP) set forth in 40 CFR 61 and 63. Please see Appendix C for specific NSPS and NESHAP requirements.
[District Rules 900 and 1000]

## B. FACILITYWIDE MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS:

1. Any data and records generated and/or kept pursuant to the requirements in this Federal Operating Permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data or logs shall be supplied to District, state or federal personnel upon request.
[District Rule 1203(D)(1)(d)(ii)]
[40 CFR 70.6(a)(3)(ii)(B)]

2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's Compliance Test Procedural Manual. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's Compliance Test Procedural Manual. All emission determinations shall be made as stipulated in the Written Test Protocol accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved Written Test Protocol may be used with District concurrence.
[District Rule 204]

3. Owner/Operator of all permitted fuel burning 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 for each shipment or by contract term 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 is sufficient.

   [District Rule 204]
   [California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]
   [40 CFR 70.6(a)(3)(B)]
   [Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)]

4. Owner/Operator shall submit, annually, a Compliance Certification as prescribed by District Rule 1203(F)(1) and District Rule 1208. The Compliance Certification, submitted by a Responsible Official, shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[District Rule 1203(D)(1)(g)(v-x); District Rule 1203(F)(1); District Rule 1208]
[40 CFR 72.90.a; 40 CFR 70.6(c)(5)(i)]
   (a) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.
   [District Rule 1203(D)(1)(g)(viii)]

[40 CFR 70.6(c)(5)(ii)]

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

(c) Owner/Operator shall comply with any additional certification requirements as specified in 42 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 hereunder.
[District Rule 1203 (D)(1)(g)(x)]

(d) The annual certification period is January 1st through December 31st and shall be submitted no later than January 31st of each year for the certification period of the previous year.

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 a 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) specified in this permit to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.
   (d) The semi-annual Monitoring Report reporting periods shall be submitted as follows:
      (i) July 1st through December 31st, due no later than January 31st of each year; and,
      (ii) January 1st through June 30th, due no later than July 31st of each year.

[District Rule 1203(D)(1)(c)(i - iii); District Rule 1203(D)(1)(d)(i); District Rule 1203(D)(1)(e)(i - ii); District 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.
[District Rule 1203(D)(1)(e)(ii)]
Prompt reporting shall be determined as follows:
   (a) For deviations involving emissions of air contaminants in excess of permit conditions including those caused by a breakdown, a facility may elect to provide immediate notification under District Rule 430, if the District Rule 430 provisions apply. However, in case of deviations involving emissions of air contaminants in

excess of permit conditions, if the facility does not qualify for District Rule 430 immediate notification or does not elect to perform immediate notification under District Rule 430, then prompt reporting shall be within 72 hours of the occurrence of the excess emission or within 72 hours 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. [40 CFR 70.6(g)]

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

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

7. If any facility unit(s) should be determined not to be in compliance with any federally-enforceable requirement during the 5-year permit term, then owner/operator shall submit a Schedule of Compliance. In addition, the 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 District 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 or administrative order relating to any Applicable Requirements/federally-enforceable requirements that is issued by any appropriate judicial body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and

(c) Progress Reports submitted under the provisions of a Schedule of Compliance shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance. [District Rule 1201 (I)(3)(iii); District Rule 1203 (D)(1)(g)(v)]

8. The permit holder shall submit an application for renewal of this Title V Permit at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal operating permit (FOP). If an application for renewal has not been submitted and deemed complete in accordance with this deadline, the facility may not operate under the (previously valid) FOP after this FOP expiration date. If the permit renewal has not

been issued by this FOP expiration date, but a timely application for renewal has been submitted and deemed complete in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application.
[District Rule 1202(B)(3)(b)(i); District Rule 1202(E)(2)(a)]

## C. FACILITYWIDE COMPLIANCE CONDITIONS:

1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times.
[District Rule 1203(D)(1)(g)(i)]
[40 CFR 70.6(c)(2)(i)]

2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.
[District Rule 1203(D)(1)(g)(ii)]
[40 CFR 70.6(c)(2)(ii)]

3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.
[District Rule 1203(D)(1)(g)(iii)]
[40 CFR 70.6(c)(2)(iii)]

4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement/federally – enforceable requirement.
[District Rule 1203(D)(1)(g)(iv)]
[40 CFR 70.6(c)(2)(iv)]

5. Owner/Operator shall remain in compliance with all conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.
[District Rule 1203 (D)(1)(f)(ii)]

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

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)(3)(i) 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, at least 10 working days before the end of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145(b)(3)(iii) 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 District Rule 1211 - Greenhouse Gas Provisions of Federal Operating Permits. Specifically, the Owner/Operator shall include Greenhouse Gas (GHG) emission data and all applicable GHG requirements with any application, as specified in 1211(D)(1), for a Federal Operating Permit.
[District Rule 1211]

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

## A. EQUIPMENT DESCRIPTION

## *PROCESS: 1 - CRUSHING & SCREENING FOR PREHEATER PLANT*

### 1. PRIMARY AND SECONDARY CRUSHING SYSTEM – MDAQMD PERMIT; B001009:

| Capacity | Equipment Name |
|---|---|
| 7.5 | 2-WP-8 Water Spray Pump |
| 0 | 2-SS-1 Primary Hopper, 250 tons |
| 60 | 2-FE-1 Apron Feeder |
| 300 | 2-CR-1 Jaw Crusher, Birds-Boro Buchanan |
| 20 | 2-BC-1 Belt Conveyor |
| 25 | 2-VS-1 Vibrating Screen |
| 300 | 2-CR-2 Secondary Crusher |
| 60 | 2-BC-2 Belt Conveyor |
| 40 | 2-BC-3 Belt Conveyor |
| 3 | 2-SC-1 Screw Conveyor |
| 7.5 | 2-SC-1A Screw Conveyor |
| 0 | Pile Outside Cement Rock, 72,000 tons |
| 0 | Pile Outside High Grade, 36,000 tons |

PERMIT CONDITIONS:

1. The owner/operator shall operate/maintain this equipment in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment operating under valid District permit C001013 (2-DC-1).

3. Materials processed shall contain sufficient natural or added moisture to ensure compliance with District Rules 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

4. Process rate shall not exceed equipment rating of 1,975 tons per hour. A daily log of

material processed (tons), actual or estimated, shall be maintained on-site for five years and provided to District personnel on request.

**2.** **BAGHOUSE – MDAQMD PERMIT; C001013:**

Serving Crushing System 2-CR-1 under permit No. B001009:
2-DC-1 Baghouse, Mikro Pul No. 100-8-20, A/C ratio 8.23:1, 16,000 acfm cloth area 1,943 sq. ft.
2-FA-1 Blower, 60 hp

PERMIT CONDITIONS:

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

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 (5) years.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**3. CRUSHING, STOCKPILING, AND PRE-BLENDING SYSTEM – MDAQMD PERMIT; B001011:**

| Capacity (hp) | Equipment Name |
|---|---|
| 5.00 | 2-FA-11 Water Cooling Fan |
| 5.00 | 2-FA-12 Water Cooling Fan |
| 37.50 | 2-FE-3,4,5,6,7 Apron Feeders, 5 @ 7.5 hp ea |
| 30.00 | 2-BC-4 Belt Conveyor |
| 200.00 | 2-BC-5 Belt Conveyor |
| 50.00 | 2-VS-2,3 Vibrating Screens, 2 @ 25 hp ea. |
| | 2-SS-4 Funnel |
| 25.00 | 2-FE-10 Feeder |
| 350.00 | 2-CR-3 Crusher, Tertiary |
| 40.00 | 2-BC-6 Belt Conveyor |
| 50.00 | 2-BC-9 Belt Conveyor |
| 5.00 | 2-TIM-2 Magnet |
| 150.00 | 3-BC-1 Belt Conveyor |
| | 3-SS-1 Funnel |
| 50.00 | 3-BC-2 Belt Conveyor |
| 6.00 | 3-SL-1, 2 Stack Slewing Drive, 2 @ 3 hp ea. |
| 2.00 | 2-SC-2 Screw Conveyor |
| | Dome Rock and Hi Grade, 49,000 tons |

PERMIT CONDITIONS:

1. The owner/operator shall operate/maintain this equipment in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment operating under valid District permits C001014 (2-DC-2), C001016 (2-DC-3), C001017 (3-DC-1), C001335 (2-DC-6), C001336 (2-DC-7), C001337 (2-DC-8), C001339 (2-DC-9).

3. Materials processed shall contain sufficient natural or added moisture to ensure compliance with District Rules 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

**4. BAGHOUSE – MDAQMD PERMIT; C001014:**
Serving Tertiary Crusher 2-CR-3 and Preblend to 2-BC-9 under permit No. B001011: 2-DC-2 Baghouse, Ecolaire model 500-6, A/C ratio 5:1, 15,000 acfm, cloth area 3,140 sq. ft. 2-FA-2 Blower, 50 hp.

PERMIT CONDITIONS:

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

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 two years.

3. This baghouse 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 provided to the District upon request.

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.

**5. <u>BAGHOUSE – MDAQMD PERMIT; C001016:</u>**
Serving Tertiary Crushing/Preblend System 2-CR-3 via 2-BC-9 to 3-BC-1 under permit No. B001011 and equipment under permit No. B001979:
2-DC-3 Baghouse, DCE Vokes DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq. ft.2-FA-3 Blower, 5.5 hp.

<u>PERMIT CONDITIONS:</u>

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

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 two years.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**6. <u>BAGHOUSE – MDAQMD PERMIT; C001017:</u>**
Serving Crushing/Preblend to Dome via 3-BC-2 under permit No. B001011:
3-DC-1 Baghouse, Flex-Kleen 84-WRT-64, A/C ratio 6.25:1, 4,000 acfm, cloth area 640 sq. ft. 3-FA-1 Blower, 15 hp

PERMIT CONDITIONS:

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

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 two years.

3. This baghouse 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 provided to the District upon request.

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.

**7. BAGHOUSE – MDAQMD PERMIT; C001335:**
Serving Crusher Pre-blend Transfer via 3-BC-1 to Dome under permit No. B001011:
2-DC-6 Baghouse, DCE Vokes DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq. ft. 2-FA-6 Blower, 6.5 hp

PERMIT CONDITIONS:

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

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 two years.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**8. BAGHOUSE – MDAQMD PERMIT; C001336:**
Serving Crusher Pre-blend Transfer from 2-BC-4 under permit No. B001011:
2-DC-7 Baghouse, DCE Vokes DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq. ft. 2-FA-7 Blower, 5.5 hp

PERMIT CONDITIONS:

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

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 two years.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**9. BAGHOUSE – MDAQMD PERMIT; C001337:**

Serving Stockpile Transfer to Crushing to 2-BC-5 under permit No. B001011:
2-DC-8 Baghouse, DCE Vokes DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq. ft. 2-FA-8 Blower, 5.5 bhp

PERMIT CONDITIONS:

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

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 two years.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**10. BAGHOUSE – MDAQMD PERMIT; C001339:**

Serving Tertiary Crusher 2-CR-3 under permit B001011:
2-DC-9 Baghouse, Ecolaire model 500-3, A/C ratio 3.82:1, 6,000 acfm, cloth area 1,570 sq. ft. 2-FA-9 Blower, 20 hp.

PERMIT CONDITIONS:

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

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 two years.

3. This baghouse 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 provided to the District upon request.

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.

## 11. RAW ADDITIVE DELIVERY TO STORAGE – MDAQMD PERMIT; B001012:

| Capacity (hp) | Equipment Name |
|---|---|
| 60.00 | 3-BC-4 Belt Conveyor |
| 5.00 | 3-TT-1 Tripper |
| 60.00 | 3-RC-1 Reclaimer |
| 0.20 | 3-RC-B1 Reclaimer Slope Cleaner Brake |
| 100.00 | 3-CD-1 Drag Conveyor |
| 6.00 | 3-SL-3A,3B Stacker Slewing Drive, 2 @ 3 hp ea. |
| 1.50 | 3-SL-4A,4B Stacker Slewing Drive, 2 @ .75 hp ea. |
| | 3-SS-1 Raw Material Bin, 8 tons |
| 50.00 | 3-BC-3 Belt Conveyor |
| 2.00 | 3-SC-1 Screw Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permit C001018 (3-DC-3).

## 12. BAGHOUSE – MDAQMD PERMIT; C001015:

***(Cancelled)***

**13. BAGHOUSE – MDAQMD PERMIT; C001018:**

Serving Additive Silos via 3-BC-3 and 3-BC-4 under permit No. B001012 and equipment under permit No. T002091: 3-DC-3 Baghouse, Ecolaire model 500-7, A/C ratio 5.14:1, 18,000 acfm, cloth area 3,500 sq. ft. 3-FA-3 Blower, 60 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**14. STORAGE - RAW ADDITIVE – MDAQMD PERMIT; T002091:**

| Capacity | Equipment Name |
|---|---|
| 43700.00 | 3-SS-2 Preblend Material Silo, 450 tons |
| 43700.00 | 3-SS-3 Bauxite Silo, 450 tons |
| 43700.00 | 3-SS-4 Iron Oxide Silo, 450 tons |
| 43700.00 | 3-SS-5 High Grade Silo, 450 tons |
| 43700.00 | 3-SS-6 High Grade Silo, 450 tons |

PERMIT CONDITIONS:

1. Silos shall not receive nor unload materials unless each one used is vented to the specific air pollution control equipment that is operating as per valid District permits C001018 (3-DC-3) under B001012.

**14A. BAUXITE UNLOADING HOPPER – MDAQMD PERMIT; B010042:**

| Capacity (hp) | Equipment Description |
|---|---|

| | |
|---|---|
| | 3-SS-7 Hopper 5 cubic feet |
| 10.00 | 3-BC-6 Belt Conveyer 24" wide by 106 feet long |

PERMIT CONDITIONS:

1. This equipment shall only be used to unload and transfer bauxite to the stockpile.

2. The owner/operator shall operate/maintain this equipment in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. Materials processed shall contain sufficient natural or added moisture to ensure compliance with District Rules 401,402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

## ***PROCESS: 1A – CLAY STORAGE***

**15. CLAY DELIVERY, CRUSHING AND STORAGE SYSTEM – MDAQMD PERMIT; B001010:**

| Capacity (hp) | Equipment Name |
|---|---|
| | 2-SS-2 Clay Hopper |
| 10.00 | S-FE-8 Apron Feeder |
| 20.00 | 2-BC-10 Belt Conveyor |
| 40.00 | 2-BC-7 Belt Conveyor |
| | Dome Clay Pile, 17,000 tons |

PERMIT CONDITIONS:

1. The owner/operator shall operate/maintain this equipment in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment operating under valid District permits C001333 (2-DC-4) and C001334 (2-DC-5).

3. Materials processed shall contain sufficient natural or added moisture to ensure compliance with District Rules 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

**16. BAGHOUSE – MDAQMD PERMIT; C001333:**
Serving Clay Crushing System 2-CR-4 under permit No. B001010:
2-DC-4 Baghouse, DCE Vokes DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq.

ft. 2-FA-4 Blower, 5.5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**17. BAGHOUSE – MDAQMD PERMIT; C001334:**

Serving Clay Crushing System 2-CR-4 under permit B001010:
2-DC-5 Baghouse, Zurn model E-1 pulse jet ZJ-60-8, A/C ratio 5:1, 3,500 acfm, cloth area 680 sq. ft.
2-FA-5 Blower, 15 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**18. CLAY DOME RECLAIM SYSTEM – MDAQMD PERMIT; B001979:**

| Capacity (hp) | Equipment Name |
|---|---|
| | 2-SS-5 Manual Hopper |
| | 2-GA-5 Manual Gate |
| 7.50 | 2-FE-2 Clay Dome Discharge Feeder |
| 0.25 | 2-LP-3 Clay Reclaim Feeder Lube Pump |
| 7.50 | 2-BC-8 Belt Conveyor, Clay Dome Reclaim |
| | 2-BCS-3 Belt Scale for Clay 2-BC-8, discharge is to 2-BC-9 (B001011) |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permit C001016 (2-DC-3) (under B001011).

## *PROCESS: 2 – RAW GRINDING:*

**19. RAW GRINDING AND BLENDING - MDAQMD PERMIT; B001019:**

| Capacity (hp) | Equipment Name |
|---|---|
| 5.00 | 3-WF-1 Weigh Feeder |
| 3.00 | 3-WF-2,3,4 Weigh Feeders, 3 @ 1 bhp ea. |
| 2.00 | 3-WF-5 Weigh Feeder |
| 50.00 | 3-BC-5 Belt Conveyor |
| 7.50 | 3-TV-4 Tipping Valve |
| 7000.00 | 3-GM-1 Raw Mill Motor F. L. Smidth, 2 @ 3,500 bhp ea. |
| 100.00 | 3-ID-1 Inching Drive |
| 15.00 | 3-AB-1A Air Blower for 3-AS-1,2,3 |
| 3.00 | 3-AB-1B Air Blower for Elevator inlets 3-BE-1,2 |
| 250.00 | 3-BE-1,2 Bucket Elevators, 2@ 125 bhp |
| 30.00 | 3-AB-2 Air Blower for 3-AS-4,5,6,8 |
| 50.00 | 3-AB-3 Air Blower for 3-AS-11,12,13,15 |
| | 3-SE-1 Grit Separator |
| 800.00 | 3-SE-2,3 Mechanical Separators, 2 @ 400 bhp ea. |
| | 3-CY-1,2 Cyclones |
| 6.00 | 3-RV-1,2 Rotary Valves, 2 @ 3 bhp ea. |
| 1200.00 | 3-FA-8 Air Fan |
| 10.00 | 3-FA-9 Cooling Fan |
| 1.00 | 3-CH-1 Sampling Churn |

| | |
|---|---|
| 10.00 | 3-AB-4 Air Blower for 3-AS-16,17,18,36 |
| 10.00 | 3-AB-5 Air Blowers for 3-AS-16,17,18,36 |
| 250.00 | 3-BE-3,4 Bucket Elevators, 2 @ 125 bhp |
| 50.00 | 3-AB-6 Air Blowers for 3-AS-19,20,22,24 |
| 50.00 | 3-AB-9 Air Blowers for 21,23 & 3-DB-4 |
| 10.00 | 3-AB-7 Air Blowers for 3-DB-6 |
| 10.00 | 3-AB-8 Air Blowers for 3-DB-5 |
| 2.00 | 3-SC-2 Screw Conveyor |
| 2.00 | 3-SC-3 Screw Conveyor |
| 1.00 | 3-SC-4 Screw Conveyor |
| 2.00 | 3-SC-5 Screw Conveyor |
| 5.00 | 3-SC-6 Screw Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001020 (3-DC-4), C001021 (3-DC-5), C001023 (3-DC-6) and C001024 (3-DC-7).

3. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

**20. BAGHOUSE - MDAQMD PERMIT; C001020:**

Serving Raw Grinding/Blending 3-GM-1 under permit No. B001019:
3-DC-4 Baghouse, Ecolaire model 500-8, A/C ratio 5:1, 20,000 acfm, cloth area 4,186 sq. ft. 3-FA-4 Blower, 60 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**21. <u>BAGHOUSE - MDAQMD PERMIT; C001021:</u>**

Serving Raw Mill discharge via discharges from 3-BE-3 and 3-BE-4 permit No. B001019 and equipment under permit No. T002090:
3-DC-5 Baghouse, Ecolaire model 500-8, A/C ratio 5:1, 20,000 acfm, cloth area 4,1 86 sq. ft.3-FA-5 Blower, 60 hp

<u>PERMIT CONDITIONS:</u>

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**22. <u>BAGHOUSE - MDAQMD PERMIT; C001023:</u>**

Serving Raw Mill 3-GM-1 to Blending Silos via 3-BE-3 and 3-BE-4 under permit No. B001019 and equipment under permit No. B001857:
3-DC-6 Baghouse, Ecolaire model 500-6 A/C ratio 4.78:1, 15,000 acfm, cloth area 3,140 sq. ft. 3-FA-6 Blower, 50 hp

<u>PERMIT CONDITIONS:</u>

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**23. BAGHOUSE - MDAQMD PERMIT; C001024:**

Serving Raw Mill Grinding System at discharge from 3-BE-3, 3-BE-4, and Air Slides to Silos 3-SS1 and 3-SS2 under permit No. B001019 and equipment under permit No. B001857: 3-DC-7 Baghouse, Ecolaire model 500-8, A/C ratio 5:1, 22,000 acfm, cloth area 4,186 sq. ft. 3-FA-7 Blower, 75 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**24. STORAGE – RAW MIX BLENDING - MDAQMD PERMIT; T002090:**

| Capacity (gallons) | Equipment Name |
|---|---|
| 767700.00 | 3-BS-1 Raw Mix Blending Silo |
| 767700.00 | 3-BS-2 Raw Mix Blending Silo |

PERMIT CONDITIONS:

1. Silos shall not receive nor unload materials unless each one used is vented to the specific air pollution control equipment that is operating as per valid District permits C001021 (3-DC-5) under B001019.

## 25. BLENDING OPERATION FOR KILN FEED - MDAQMD PERMIT; B001857:

| Capacity (hp) | Equipment Name |
|---|---|
| 3.00 | 3-AB-18 Air Blowers for 3-AS-24,30 |
| 3.00 | 3-AB-17 Air Blowers for 3-AS-25,31 |
| 15.00 | 3-AB-19 Air Blowers for 3-AS-26,27,28,29,32,33 |
| 15.00 | 3-AB-23 |
| 15.00 | 3-AB-21 Air Blowers for 3-AS-40,41,37,38,39 |
| 15.00 | 3-AB-24 |
| 200.00 | 3-BE-5,6 Bucket Elevators, 2 @ 100 hp |
| 2.00 | 3-ID-6,7 Inching Drive, 2 @ 1 hp |
| 25.00 | 3-AB-22 Air Blower for 3-AS-42,43 |
| 25.00 | 3-AB-25 |
| | 4-SS-1 Kiln Feed Bin, 75 tons |
| 60.00 | 3-AB-10 Air Blower to 3-BS-1 |
| 40.00 | 3-AB-11 Air Blower to 3-BS-1 |
| 25.00 | 3-AB-12 Air Blower to 3-BS-1 |
| 60.00 | 3-AB-13 Air Blower to 3-BS-2 |
| 40.00 | 3-AB-14 Air Blower to 3-BS-2 |
| 25.00 | 3-AB-15 Air Blower to 3-BS-2 |
| 900.00 | 3-FA-23-40 Blowers, 18 @ 50 hp ea. |
| 900.00 | 3-FA-41-58 Blowers, 18 @ 50 hp ea. |
| 10.25 | 3-DA-52-135 Dampers, 82 @ 1/8 hp ea. |
| 90.00 | 3-SC-10-27 Screw Conveyors, 18 @ 5 hp ea. |
| 90.00 | 3-SC-28-45 Screw Conveyors, 18 @ 5 hp ea. |
| 10.00 | 3-CD-3 Drag Conveyor |
| 10.00 | 3-CD-4 Drag Conveyor |
| 20.00 | 3-SC-9 Screw Conveyor |
| 20.00 | 3-BE-7 Bucket Elevator |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001023 (3-DC-6) under B001019, C001024 (3-DC-7) under B001019, C001338 (3-DC-10-45) under B001025. Equipment in this permit shall be in operation if kiln in B001025 is in operation.

## 26. KILN BYPASS SYSTEM – ALKALI DUST - MDAQMD PERMIT; B001984:

| Capacity (hp) | Equipment Name |
|---|---|
| | 4-DA-5, 6 Alkali Bypass Dampers, Q Fan, Inlet |
| | 4-DA-7, 8 Alkali Bypass Dampers, Q Fan, Discharge, Iso |
| 60.00 | 4-FA-1 Alkali Bypass Quench Fan |
| 15.00 | 4-SC-11 Return Screw Conveyor |
| 40.00 | 4-AC-1 Air Compressor |
| 25.00 | 4-FK-1 Fuller Pneumatic Dust Transfer Pump |
| | 4-GA-7,8 Knife Gates |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001028 (4-DC-6 through 10).

3. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

**27. CLINKER COOLING EXHAUST DUST RECLAIM SYSTEM TRANSFER - MDAQMD PERMIT; B002138; 41,000 ton silo:**

| Capacity (hp) | Equipment Name |
|---|---|
| 1000.00 | 4-FA-74-93 Blowers, 20 @ 50 hp ea. |
| 100.00 | 4-SC-15-24 Screw Conveyors, 10 @ 10 hp ea. |
| 100.00 | 4-SC-15A-24A Screw Conveyors, 10 @ 10 hp ea. |
| 20.00 | 4-SC-28 Screw Conveyor |
| 30.00 | 4-SC-29 Screw Conveyor (extended) |
| 10.00 | 4-SC-46 Screw Conveyor (FR 4-DC-46) |
| 7.50 | 4-SC-12 Screw Conveyor |
| 5.00 | 4-SC-13 Screw Conveyor |
| | 4-BE-2 Bucket Elevator (B002137) |
| | 4-GA-84 Bypass Gate |
| 40.00 | 4-DDC-3 4-SS-4 Feed Apron Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000984 (4-DC-17-21 & 31-35) under

B001025, C001340 (4-DC-41) under B002137, and C011253 (4-DC-54) or C001027 (4-DC-11) under T002093 (at times when T002093 is being filled).

3. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

**28. STORAGE-CLINKER DIRECT FROM 4-RK-1 KILN COOLER SYSTEM, 3,330,000 GALLONS, 4-SS-4 CLINKER SILO, 41,000 TONS - MDAQMD PERMIT; T002093:**

PERMIT CONDITIONS:

1. Silos shall not receive nor unload materials unless each one used is vented to the specific air pollution control equipment that is operating as per valid District permits C001027 (4-DC-11).

**29. BAGHOUSE - MDAQMD PERMIT; C001027:**
Serving Kiln Cooler Transfer of Clinker to Silo Storage, mounted on silo; 4-SS-4 under permit No. T002093 and equipment under permit Nos. B001025 and B002138:
4-DC-11 Baghouse, Ecolaire model 600-1, A/C ratio 5.7:1, 3,500 acfm, cloth area 615 sq. ft. 4-FA-70 Blower, 15 hp:

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**29A. DUST COLLECTOR – MDAQMD PERMIT; C011253:**
Dust collection system (4-DC-54) manufactured by AVS, Model 96AVS64, with an airflow of 3,000 acfm, cloth area 786 sq ft, and an air to cloth ratio of 3.8:1. Fan motor rated at 7.5 hp. Serves the kiln cooler transfer to Clinker Storage Domes.

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance these conditions.

5. This baghouse shall operate concurrently with the clinker cooling exhaust dust reclaim system transfer under valid District Permit B002138. Additionally, this unit and dust collector with District permit C001027 shall not operate simultaneously.

6. This baghouse shall discharge no more than 0.30 pounds per hour of PM10 at a maximum concentration of 0.01 grains/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.
[District Rule 1303]

7. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.

8. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

9. The o/o shall conduct periodic opacity monitoring per NESHAP Subpart LLL requirements.

## 30. GRAVITY COOLER; B002137:

| Capacity (hp) | Equipment Name |
|---|---|
| | 4-GA-19A,19B Gates on 3-way chute to "G" Cooler |

| | |
|---|---|
| 40.00 | 4-CD-3,4 Drag Conveyors, 2 @ 20 hp ea. |
| 1000.00 | 4-FA-57-66 "G" Cooler Fans, 10 @ 200 hp ea. |
| 10.00 | 4-GA-21-50 Screw Driven Cooler Gates |
| 10.00 | 4-GA-51-80 Screw Driven Cooler Gates |
| 20.00 | 4-DDC-2 "G" Cooler Discharge Apron Conveyor |
| | 4-SS-3 4-DDC-2 Reclaim Hopper, 7.5 tons |
| | 4-GA-82 Gate from 3-way chute |
| 100.00 | 4-BE-2 Bucket Elevator |
| | 4-GA-83,89 Bypass Gates |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001026 (4-DC-40), C001340 (4-DC-41), C002782 (4-DC-46), and C000999 under B001032.

3. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

**31. BAGHOUSE - MDAQMD PERMIT; C001026:**

Serving Clinker Transfer to Silos under permit No. B002137 and equipment under permit No's. ~~B000983~~, B001025, and B001032:
4-DC-40 Baghouse, Zurn pulse jet model ZJ-144-8, A/C ratio 4.15:1, 7,200 acfm, cloth area 1,733 sq. ft., 4-FA-96 Blower, 20 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**32. BAGHOUSE - MDAQMD PERMIT; C001340:**

Serving Clinker Transfer to Silos under permit Nos. B002137 and B002138:
4-DC-41 Baghouse, Ecolaire model 600-1, A/C ratio 5.57:1, 3500 acfm, cloth area 628 sq. ft., 4-FA-97 Blower, 15 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**33. BAGHOUSE - MDAQMD PERMIT; C002782:**

Serving Clinker Grate (G) Cooler under permit No. B002137 and equipment under permit Nos. B001025 and T001030:
4-DC-46 Baghouse, Fuller model "8" series, single module walk-in plenum-jet pulse collector, size 400 S10, 25,000 acfm at 160 degrees F, estimated velocity 107'/sec., 5,200 ft2 total cloth area and A/C ratio 4.8:1; stack 26" dia. x 66"H
4-FA-46 Blower, 100 hp, 4-CY-46 Cyclone

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

## ***PROCESS: 3 – BURNING & COOLING – RAW BLENDING:***

### 34. CLINKER TRANSFER TO STORAGE - MDAQMD PERMIT; B001032:

| Capacity (hp) | Equipment Name |
|---|---|
| 30.00 | 4-DDC-4 Deep Drawn Conveyor |
| 50.00 | 4-BE-3 Bucket Elevator |
| 60.00 | 4-CD-5 Chain Drag |
| 10.00 | 4-SC-14 Screw Conveyor |
| 3.00 | 4-CD-6 Drag Conveyor |
| 25.00 | 4-BC-3 Belt Conveyor |
| | 4-SS-6 Clinker hopper |
| 10.00 | 4-BC-7 Belt Conveyer |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000999 (4-DC-45), C001026 (4-DC-40) under B002137, C001029 (4-DC-12) under T001031.

### 35. BAGHOUSE (4-DC-45) - MDAQMD PERMIT; C000999:

Serving Clinker Transfer dust, under permit No. B001032 and equipment under permit Nos. B000975, B000983, B001034, B002137, T002094, and T002096:
4-DC-45 Baghouse, Mikro Pul model 82-F-4, A/C ratio 2.18:1, 9,860 acfm, cloth area 4,522 sq. ft.
4-FA-95 Blower, 100 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

5. This air pollution control device shall discharge no more than 0.85 pounds per hour of $PM_{10}$ 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]

**36. <u>CLINKER PYRO PROCESSING KILN - MDAQMD PERMIT; B001025:</u>**

Kiln and pre-calciner. 4-RK-1 and 4-SP-1 with total heat input of 751 MMBtu/hr, and tire fuel conveying system. Horsepower ratings are converted to Btu ratings using 2550 Btu/hp factor in capacity listing (rating is in units of MMBtu/hr).

| Capacity (MMBtu/hr) | Equipment Name |
|---|---|
| 0 | 4-AP-1 Aeration Pad |
| 0 | 4-AS-1,2 Air Slides |
| 0.1 | 4-AB-1,4 Air Blowers for 4-AP-1, 4-AS-1,2 (40 total hp) |
| 0 | 4-AS-4,6,8,10 Air Slides |
| 0.01 | 4-AB-2 Air Blower for 4-AS-4,6,8 (7.5 hp) |
| 0 | 4-AS-5,7,9 Air Slides |
| 0.01 | 4-AB-3 Air Blower for 4-AS-3,5,7,9 (7.5 hp) |
| 0.19 | 4-AB-5 Clinker Reclaim (Modco) System (75 hp) |
| 0.03 | 4-RV-1,2 Rotary Valves, 2 @ 7.5 hp ea. |
| 0 | 4-CY-1-10 Cyclones |
| 0 | 4-SP-1 Pre-calciner (Suspension Preheater) |
| 0.03 | 4-FA-16 Air Seal Fan (15 hp) |
| 751 | 4-SP-1 and 4-RK-1 Total heat input of 751 MMBtu/hr |
| 2.04 | 4-RK-1A,1B Motor Drive for Kiln, 2 @ 400 hp ea. |
| 0.1 | 4-ED-1,2 Emergency Drives, 2 @ 20 hp ea. |
| 0.26 | 4-FA-19-39 Shell Cooling Fans, 21 @ 5 hp ea. |
| 0.1 | 4-FA-120-127 Shell Cooling Fans, 8 @ 5 hp ea. |
| 0.02 | 4-FA-17,18 Kiln Drive Cooling Fans, 2 @ 5 hp ea. |
| 0.06 | 4-FA-40 Air Seal Cooling Fan (25 hp) |

| | |
|---|---|
| 0 | 7-BU-4 Burner for Kiln |
| 0 | 7-BU-5 Pre-calciner Coal Burner (stationary) |
| 0 | 7-BU-6 Pre-calciner Gas Burner (stationary) |
| 0 | 7-BU-7 Pre-calciner Gas Burner Stabilizer |
| 0.01 | 7-FA-18 Pre-calciner Primary Fan (7.5 hp) |
| 0.15 | 7-FA-17 Kiln Primary Air Fan (60 hp) |
| 12.75 | 4-FA-12,13 Pre-heater Exhaust Fans, 2 @ 2500 hp ea. |
| 0.03 | 4-FA-14,15 I.D. Motor Cooling Fans, 2 @ 7.5 hp ea. |
| 1.14 | 4-AC-2,3,4 Air Compressors, 3 @ 150 hp ea. |
| 0.1 | 4-WP-1,2 Water Pumps, 2 @ 25 hp ea. |
| 0.3 | 4-WP-3,4 Water Pumps, 2 @ 60 hp ea. |
| 0.38 | 4-FA-41 Grate Cooler Fan (150 hp) |
| 0.38 | 4-FA-42 Grate Cooling Fans (150 hp) |
| 1.02 | 4-FA-43 Rate Cooling Fans (400 hp) |
| 0.76 | 4-FA-44 Grate Cooling Fans (300 hp) |
| 1.02 | 4-FA-45 Grate Cooling Fans (300 hp) |
| 0.01 | 4-FA-50A,B Air Cooling Fans, 2 @ 3 hp ea. |
| 0.19 | 4-CC-1 Clinker Grate Cooler (75 hp) |
| 0.31 | 4-BR-1 Clinker Breaker (125 hp) |
| 0.15 | 4-FA-55 Clinker Breaker Housing Cooling Fan (60 hp) |
| 0.03 | 4-FA-56 Clinker Breaker Cooling Fan (15 hp) |
| 0.01 | 4-CD-1 Drag Conveyor (7.5 hp) |
| 0.12 | 4-DDC-1 Deep Drawn Conveyor (50 hp) |
| 0 | 4-DA-3A,B Dust Dampers, 2 @ 0.1 hp ea. |
| 0.001 | 4-DA-54,55,56,57 Dust Dampers, 4 @ 0.1 hp ea. |
| 0.01 | 4-FA-51,52 Cooling Fans, 2 @ 3 hp ea. |
| 0.1 | 4-FA-100,101 Air Blower Fans (7.5 and 25 hp) |
| 0.004 | 4-DAA-5 Dust Dampers @ 0.75 hp |
| 0.004 | 4-DA-6 Dust Dampers @ 0.75 hp |
| 0 | 7-LBF-1 Live Bottom Feeder |
| 0 | 7-BC-10 Belt Conveyor |
| 0 | 7-SGL-1 Tire Singulator (10 hp) |
| 0 | 7-BC-10A Belt Conveyor |
| 0 | 7-BC-11 Belt Conveyor |
| 0 | 7-LRC-1-18 Roller Conveyers (18 LRC, total 17 hp) |
| 0 | 7-GA-114,115 Tire Shoot Gates |
| 0 | 7-WF-5 Weigh Feeder |

PERMIT CONDITIONS:

1. Limestone ore charged to the process shall only be obtained from the Cushenbury or Marble Canyon quarries unless a sulfur analysis of the proposed replacement ore is submitted to the District a minimum of 60 days prior to intended use, and written permission of the APCO is obtained for use of the replacement ore.

2. This equipment shall not be operated unless it is vented to air pollution control equipment operating under valid District permits C001338 (3-DC-10-45), C000984 (4-DC-17-21 & 31-35), C001026 (4-DC-40) under B002137, and C002782 (4-DC-46) under B002137, and C012320 (4-DC-28/29).

3. The daily emissions for each operating day for this kiln system 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. The daily emissions of the following pollutants CO, $NO_x$, $SO_x$, and $O_2$ (a diluent gas) shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas flow rate shall be monitored using a Continuous Emission Rate Monitoring System (CERMS), or other District approved method.

4. Daily data shall be maintained for the operation of the kiln which include, but are not limited to, the items listed below. This data shall be kept current and on-site for a minimum of five (5) years and provided to federal, state, and/or District personnel upon request.
   (a) Hours of operation per day.
   (b) Dates of major repairs and/or replacements and dates of routine repairs.
   (c) Type(s) and mass quantity of fuels and fuel supplements being used, and the associated feed rate.

5. $NO_X$ emissions from this kiln shall not exceed the following:
   (a) 2.8 pounds of $NO_X$ per ton of clinker produced when averaged over any 30 consecutive day period under all operating conditions other than those specified under section ‘b.’ below.
   (b) 3.4 pounds of $NO_X$ per ton of clinker produced when averaged over any 30 consecutive day period when this equipment is fired on more than 15% of heat input from any combination of Low-Carbon Fuels or the low-carbon portion of fuel mixtures.
   (c) 2, 640 tons per year of $NO_X$.

   Low-Carbon Fuels are defined as natural gas and carbon-neutral fuels such as but not limited to biomass, and mixtures containing carbon-neutral fuels. Coal is not a Low-Carbon Fuel.
   [District Rule 1161 and District Rule 1302(C)(1)(a)]

6. Fuel to the kiln system may include coal, natural gas (Low-Carbon Fuel), and other supplemental fuels as specified below. All emission limitations specified in these conditions apply irrespective of fuel or fuel mixture. This equipment may be fired with supplemental fuels per the specifications listed below:
   (a) Combustible materials generated at this facility, specifically, lubricants (semi-solids), oil soaked rags, oil soaked sorbent, waste paper, and bags from baghouses at this facility. These materials shall have a combined average daily weight of no more than 550 pounds per day, averaged on a calendar year basis.
   (b) Tire Derived Fuel (TDF), specifically, any combination of whole tires, chipped

tires, or separated portions of tires. The feed rate of TDF being utilized shall not exceed 26% of the total BTU content being fed into the kiln for any single hourly average, or 22% on any 24-hour average basis. The maximum heat value of TDF may be increased up to 70% with the addition of a chipped tire feed system (see B010724) pending a source test to demonstrate no increase in HAPS, criteria pollutants and/or Health Risk. The source test must be completed prior to usage of 50,000 short tons of chipped tires.

(c) Biosolids (Low-Carbon Fuel) may be used as a NOx reduction agent and as a supplementary fuel in the Cushenbury plant cement kiln system. The biosolids injection/feed rate shall not exceed 5 tons/hour calculated at zero percent moisture.

(d) Wood products (Low-Carbon Fuel), specifically, natural vegetation, and processed Construction and Demolition (C&D) wood meeting the definition of 40 CFR 241.2 and 241.4. Heat input of all wood materials may be up to 13% of the total BTU feed rate on a 24-hour basis and shall be injected only into either the front end of the kiln or the combustion zone of the pre-heater tower. Compliance with the non-hazardous requirement shall be evidenced by suppliers manifests of non-hazardous wood product fuel supplied and by the retention of the source test demonstrating no increase in criteria or HAP emissions for the specified wood product fuel.

(e) Engineered Fuel*, specifically non-hazardous materials processed by Material Recovery Facilities or similar facilities that process nonhazardous waste in which the waste has been further processed to meet the consistent specifications for chlorine content that is not to exceed 5000 ppm based on an annual average from monthly representative load samples. Heat input of all engineered fuels may be up to 20% of the total BTU feed rate on a 24-hour basis and shall be injected only into either the front end of the kiln or the combustion zone of the pre-heater tower. Compliance with the non-hazardous requirement shall be evidenced by suppliers manifests of non-hazardous engineered fuel supplied and by the retention of the source test demonstrating no increase in criteria or HAP emissions for the specified engineered fuel.

*A source test is required for engineered fuel to quantify the emission effects, and a subsequent permit modification will be made to define the fuel parameters for continued use of engineered fuel. This source test is required prior to the introduction of 20,000 short tons, based on a cumulative total for all testing, pursuant to conditions 7 and 8.

7. The emissions effects of engineered fuel, as allowed by condition 6, are to be monitored by Continuous Emissions Monitoring as it is introduced.

(a) Testing periods will be identified in the quarterly emission reports, including start and end time, fuel type, and total amount combusted.

(b) Records shall be kept for kiln total BTU input during testing periods, based on either laboratory or published BTU contents.

(c) $NO_x$, total hydrocarbon, CO, and $SO_x$ emissions, based on average emissions during periods of testing, as recorded by the plant CEMS, shall be maintained below the maximum 72-hour average from the previous two years of data during

periods without the fuel being tested. Data obtained during periods of testing shall be averaged over the quarter; a minimum of 72 hours of data collection is required for calculating the average. In cases where less than 72 hours is collected in a quarter testing, the data will be combined with the data from previous quarters for averaging purposes.

(d) Opacity readings shall be taken per 40 CFR 63.1349(b) for each fuel type.

8. Source testing requirements regarding the use and effects of engineered fuel are summarized:
   (a) Pursuant to 40CFR63 Subpart LLL, the owner/operator shall conduct a dioxin/furan test, using EPA Method 23 and following a District-approved test protocol, inputted at the maximum allowable rate per fuel.
   (b) If the results of the source test indicate that there is no increase in Health Risk, then no additional source testing will be required other than annual RATA and the dioxin/furans test as required by 40 CFR 63.
   (c) If the results of the source test indicate that there is an increase in Health Risk, the owner operator shall conduct a Prioritization Score analysis pursuant to 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. If all Prioritization Scores indicate that the facility is categorized as Low or Intermediate Priority, no further testing or analysis is required for the distinct fuel. If the Prioritization Scores indicate that the facility is categorized High Priority, the facility shall conduct a Health Risk Assessment pursuant to District Rule 1320 – NSR for Toxic Air Contaminants and adhere to the requirements and procedures of this rule pending the results of the Health Risk Assessment.

9. This facility shall be maintained in compliance with; NSPS 40 CFR 60 Subparts F, Y and OOO; and 40 CFR 63 Subpart LLL. In the event of conflict between District permit conditions and these Federal requirements, the more stringent requirements shall govern.

## 36A. HYDRATED LIME INJECTION SYSTEM - MDAQMD PERMIT; B011738:

~~Dry~~Hydrated lime, purchased from various sources, is delivered by truck and off-loaded to the Hydrated Lime Storage Silo. Hydrated~~Dry~~ Lime is ~~air-blown into the north~~transferred to the downcomer ~~at the ID fan~~ inlet using a fluidizing bin bottom and loss-in-weight feeder. ~~Alternatively, lime is transferred from the Lime Storage Silo to the Batch tank where plant water is added to make Lime Slurry. Lime Slurry is pumped to the Day Tank, on the fifth floor of the Preheat Tower where it is metered into injection points in to the kiln exhaust within the north and south downcomers~~ The hydrated lime is than air-blown into the north downcomer at the ID fan inlet.

| Capacity (bhp/hr) | Equipment Name |
|---|---|

| | |
|---|---|
| | 12'd X 70'h, Hydrated Lime Storage Silo (100 ton capacity) |
| 0.35 | Arch Breaker rated at 0.35 bhp |
| 0.75 | Screw Feeder rated at 0.75 bhp |
| ~~1.50~~ | ~~Moisture Isolation Injector rated at 1.5 bhp~~ |
| ~~0.01~~ | ~~Mixer rated at 2 bhp~~ |
| ~~1.50~~ | ~~Transfer Pumps (2 units rated at 0.75bhp, each)~~ |
| | Silo Dust Collector (District Permit C011737) |
| | ~~48"d X 40"h, Batch Tank (260 gallon capacity)~~ |
| | ~~27"d X 51"h, Day Tank (500 gallon capacity)~~ |
| ~~2.00~~ | ~~Mixer rated at 2 bhp~~ |
| | ~~95" X 64" X 72", Metering Pump Skid~~ |
| ~~3.00~~ | ~~Metering Pumps (3 units rated at 1 bhp, each)~~ |
| 25 | Regenerative blower rated at 25 bhp |
| | Hopper single cartridge dust filters (2), Model 279, 9" dia. 30 sq. ft, PTFE cartridges. |
| | Heat exchanger, fan cooled, 1 HP, 3" inlet and outlet, 309 SCFM @ 10 psig |
| | Loss-In-Weight hopper/feeder single cartridge dust filters (2), Model 279, 9" dia. 30 sq. ft., PTFE cartridges. |
| | Fluidizing bin bottom, Model 328, equipped with three air injection valve assemblies, and urethane cone seals. |

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PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The Hydrated Lime Storage Silo associated with this Hydrated Lime Injection S~~s~~ystem shall not receive material unless the associated air pollution control device under District permit C011737 is concurrently operating.

3. The owner/operator shall comply with all applicable Rules and Regulations of the District. Applicable rules include, but are not limited to Rules 401, 402, 403 and 430.

4. This system is limited to 10,000 tons per year of Hydrated Lime product. [District Rule 1303 - NSR Requirements]

5. Product unloading from truck(s) to the Hydrated Lime Storage Silo of this Hydrated Lime Injection system is limited to less than 400 truck deliveries per year. [District Rule 1303 - NSR Requirements]

6. The owner/operator shall record all deliveries of the product unloaded from truck(s) to the Hydrated Lime Storage Silo of this Hydrated Lime Injection system to demonstrate compliance with condition 4 and 5, above. This record shall include:
   (a) The date of each delivery; and,
   (b) The tonnage of product delivered.

7. The loss-in-weight feeder and hopper shall vent only to integral dust collectors. Dust collectors shall be regularly maintained to prevent clogging of vent filters. All filter changes shall be recorded and logged with date and maintenance action. A monometer shall be installed and maintained between 0.25 and 2 inches w.c. [District Rule 1303]

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**36B. DUST COLLECTOR FOR LIME INJECTION STORAGE SILO (4-DC-55) - MDAQMD PERMIT; C011737:**

A Donaldson Torit, Model 16-FSD-6; Serial 3943625-1, equipped with sixteen (16) 6'-long polyester bags, providing a total filter/cloth area of 160 sq. ft. at a ratio of 6.25:1, with a 3 bhp fan (4-FA-133) exhausting a maximum of 1000 acfm. Polyester bags are 99.9% efficient with an emission loading of 0.01 gr/dscf. Baghouse includes a reverse pulse cleaning system and a differential pressure gauge (optimal operating range shall be maintained below 6.0 inches of water column).

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. 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 6 inches of water column.

4. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance these conditions.

5. This air pollution control device shall operate concurrently with the loading of the Lime Injection system storage silo under District Permit B011738.

6. This air pollution control device shall discharge no more than 0.09 pounds per hour of PM10 at a maximum concentration of 0.01grains/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]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. 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 1303]

## 36C. ACTIVATED CARBON INJECTION SYSTEM - MDAQMD PERMIT; C012738:

Activated carbon is injected in the kiln exhaust gas stream to control mercury emissions. This system is comprised of a locally controlled hoist/trolley that places a bulk bag of activated carbon sorbent over a hopper and gravimetric controlled screw feeder assembly that discharges into a solids educator and conveying line with motive air from a positive displacement blower. This system is equipped with a 15 bhp blower and a 3" pneumatic conveying line, rated at 225 scfm.

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall comply with all applicable Rules and Regulations of the District. Applicable rules include, but are not limited to Rules 401, 402, 403 and 430.

3. The transfer point associated with this system must be well-sealed as designed.
[District Rule 1303 (A)]

4. This system must not process more than 365 tons of carbon sorbent in any twelve (12) month period.
[District Rule 1303 (A)]

5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63.1345]

6. The owner/operator shall maintain a log, current and on-site, for five (5) years, and provide it to District personnel upon request. This log shall contain, at a minimum:
   (a) Monthly tonnage of carbon sorbent processed; and,
   (b) Date and description of repairs and maintenance performed on this system.

**37. BAGHOUSE - MDAQMD PERMIT; C000984:**

Serving Clinker Cooler Exhaust Gases from Kiln 4-RK-1 under permit No. B001025 and equipment under permit No. B002138:
4-HE-1 Grate Cooler Exhaust Air Heat Exchange
4-DC-17 thru 21 and 31 thru 35 Kaiser Custom design Multi-baghouse:
2 banks each of 5 units
A/C ratio 1.7:1
130,000 acfm
78,500 sq. ft. cloth area

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

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 (5) years.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with these conditions.

5. This air pollution control device shall operate concurrently with the Clinker Cooler Exhaust Dust Reclaim System Transfer permitted under B002138.

6. This air pollution control device shall discharge no more than 11.1 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 past source test results demonstrating the grain loading of this dust collector or identical equipment in similar service.

7. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry. This requires annual testing to demonstrate compliance with a limit of 0.07 pound of PM10 per ton of clinker production. This also requires a continuous parametric monitoring system (CPMS) for particulate, which is annually compared to test results to determine a maximum monitor output (mA) to demonstrate continuous compliance.

[40 CFR 63.1343 and 63.1348-63.1320]

**37A. DUST COLLECTOR FOR CLINKER BREAKER FUGITIVE DUST - MDAQMD PERMIT; C012320:**

Two compartments from a Kaiser custom design Multi-baghouse, 4-DC-28/29 serving the clinker breaker transition to the Clinker Cooler.
A/C ratio 1.7:1
26,000 acfm
15,700 sq. ft. cloth area
Two 50 hp Fan Motors (4-FA-84/85)

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. 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 6 inches of water column.

4. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance these conditions.

5. This air pollution control device shall operate concurrently with the Clinker Pyro Processing Kiln permitted under B001025.

6. This air pollution control device shall discharge no more than 2.2 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 past source test results demonstrating the grain loading of this dust collector or identical equipment in similar service.
[District Rule 1303 - NSR]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. 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 1303]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**37B. DUST COLLECTOR FOR CLINKER HANDLING FUGITIVE DUST - MDAQMD PERMIT; C012321:**

***(Cancelled)***

**38. BAGHOUSE - MDAQMD PERMIT; C001338:**

Serving Kiln/Mill System under permit No. B001025:
3-DC-10 through 45 Baghouse, Kaiser Cement Custom Design, multi-baghouse system consisting of 2 banks each 18 units, A/C 1.9:1, total acfm 540,000 at 190 degrees C, cloth area 283,000 sq. ft.
3-FA-59 Reverse Blower, 125 hp
3-FA-60 Reverse Blower, 125 hp
TBD Exhaust Fan, 1561 hp
Total hp = 1811

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

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 (5) years.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with compliance these conditions.

5. This air pollution control device shall operate concurrently with the Clinker Pyro Processing Kiln permitted under B001025.

6. This air pollution control device shall discharge no more than 43.6 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 past source test results demonstrating the grain loading of this dust collector or identical equipment in similar service.

7. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry. This requires annual testing to demonstrate compliance with a limit of 0.07 pound of PM10 per ton of clinker production. This also requires a continuous parametric monitoring system (CPMS) for particulate, which is annually compared to test results to determine a maximum monitor output (mA) to demonstrate continuous compliance.
[40 CFR 63.1343 and 63.1348-63.1320]

## 39. BIO-SOLIDS HANDLING SYSTEM - MDAQMD PERMIT; B004694:

| Capacity (hp) | Equipment Name |
|---|---|
| | Hopper for receipt of solids (53 ton capacity) |
| 25.00 | Slinger for solids system |
| 125.00 | Hydraulic drive unit |
| 50.00 | Twin Hopper Screws |
| 5.00 | Water injection unit |
| 5.00 | Sump Pump |

PERMIT CONDITIONS:

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.

2. Materials processed by equipment in this permit shall contain sufficient natural and/or added moisture to ensure compliance with District Rules 401 and 403. Sufficient water and equipment in operable condition shall be maintained on-site and used as necessary to ensure compliance with the above-mentioned rules.

## 40. WOOD CHIP SYSTEM - MDAQMD PERMIT; B010041:

| Capacity (hp) | Equipment Description |
|---|---|
| 0.0 | 7-LBF-100 Wood Chip Hopper, 100 ton |
| 185.5 | 7-HU-100 Conveyor and Feeder Power (Powers Pumps 7-PO-100 (A-D) and Fans 7-FA-100 (A-B) and Hopper 7-LBF-100 |
| 0.0 | 7-FE-100 Wood Feeder |
| 600.0 | 7-CR-100 (2 X 300 hp) Crusher |
| 0.0 | 7-TIM-100 |
| 0.0 | 7-BC-99 Wood Conveyor |
| 0.0 | 7-BC-100 Wood Conveyor |
| 10.0 | 7-BC-101 Wood Conveyor |
| 0.0 | 7-LBF-101 Feeder-Stoker, 250 ton |
| 125.5 | 7-HU-101 Feeder Power (Powers Pumps 7-PO-101 (A-C) and Fans 7-FA-101 (A-B) and Feeder 7-LBF-101) |
| 7.5 | 7-VS-101 |
| 7.5 | 7-VS-100 |
| 40.0 | 7-SC-104 & 105 (2 X 20 hp) |
| 10.0 | 7-RV-101 |
| 75.0 | 7-AB-101 |

| | |
|---|---|
| 10.0 | 7-RV-100 |
| 75.0 | 7-AB-100 |
| 10.0 | 7-WP-100 & 101 (2 X 5 hp) |
| 15.0 | 7-CD-101 & 102 (2 X 7.5 hp) |
| 0.0 | 7-SS-100 & 101 Feed Hoppers |
| 15.0 | 7-WP-(TBD) Additional Fogger Pump |
| 1186.0 | |

PERMIT CONDITIONS:

1. The o/o shall install, operate and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.

2. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

3. Conveyors and transfer points shall either be fully covered or the materials processed shall contain sufficient natural or added moisture to ensure compliance with all applicable District Rules such as those in Regulation IV.

4. A production and operation log shall be maintained current and on-site for two (2) years, and provided to District personnel upon request. This log shall contain, at a minimum:
   (a) Daily tonnage of wood product received;
   (b) Monthly tonnage of wood product received;
   (c) Yearly (Calendar Year) tonnage of wood product received.

5. There shall not be any visible emissions associated with this wood handling and processing equipment.

6. Roadways, and work areas shall be kept wetted to control fugitive dust. Equipment to properly wet these areas shall be maintained in operable condition on-site and used as necessary to assure compliance.

7. Other supplemental fuels permitted for the kiln may also be conveyed by the wood chip system subject to conditions in the kiln system permit B001025, and subject to conditions of this permit regarding record keeping and emission control.

8. A report shall be submitted annually, within the emissions report for the fourth quarter of each year, demonstrating that PM emission from fuels via the wood system are offset by a decrease in PM emissions from the coal system. This may be shown as a consistent total fuel usage rate on a basis of MMBtu/ton of clinker, or other demonstration basis as approved by the District.

## 40A. CHIPPED TIRE FEED SYSTEM – MDAQMD PERMIT: B010724:

| Capacity (hp) | Equipment Name |
|---|---|
| 5 | 7-LBF-2 Live bottom Bin Feeder (LBF) |
| | 7-GA-78 Gate at LBF discharge to control feed rate - Air operated |
| 15 | 7-BC-12 Belt Conveyor at LBF discharge |
| 15 | 7-BC-13 Belt Conveyor after 7-BD-12 |
| 30 | 7-BC-14 Main Belt Conveyor |
| | 7-BCS-1 Belt Conveyor Scale |
| 10 | 7-CD-5 Steel Chain Drag |
| | 7-GA-80 Triple Gate |

PERMIT CONDITIONS:

1. The o/o shall install, operate and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants.

2. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

3. Conveyors and transfer points shall either be fully covered or the Materials processed shall contain sufficient natural or added moisture to ensure compliance with all applicable District Rules such as those in Regulation IV (401, 402 and 403.2).

4. A production and operation log shall be maintained current and on-site for two (2) years, and provided to District personnel upon request. This log shall contain, at a minimum:
   (a) Daily tonnage of chipped tires received;
   (b) Monthly tonnage of chipped tires received;
   (c) Yearly (Calendar Year) tonnage of chipped tires received

5. There shall not be any visible emissions associated with this chipped tires handling and processing equipment.

6. This facility shall not chip tires for resale or off-site use.

7. Roadways, and work areas shall be kept wetted to control fugitive dust. Equipment to properly wet these areas shall be maintained in operable condition on-site and used as necessary to assure compliance.

# *PROCESS: 3A – CLINKER HANDLING & STORAGE*

## 41. CLINKER TRANSFER AND INSIDE STORAGE - MDAQMD PERMIT; B000983:

| Capacity (hp) | Equipment Name |
|---|---|
| 40.00 | 4-BC-5 Belt Conveyor |
| 25.00 | 4-BC-6 Belt Conveyor |
| 3.00 | 4-TT-1 Tripper |
| | Inside Clinker Storage (Pile) |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000999 (4-DC-45), and C001026 under B002137.

3. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

## 42. CLINKER STORAGE DOME – MDAQMD PERMIT; B009582:

| Capacity (hp) | Equipment Name |
|---|---|
| 75.00 | Air Compressor for Domes, 320 SCFM, with reserve air tank and drain, 4-AC-6 |
| 0.00 | Air Conditioner for Dome Electrical Room #14, 4-ACU-3 |
| 0.00 | Pan Conveyor Scale - on 4-DDC-7 after Dome #1, 4-BCS-1 |
| 0.00 | Pan Conveyor Scale - on 4-DDC-8 after Dome #2, 4-BCS-1 |
| 0.00 | Dust Collector at Reclaim Pan Conveyors (4-DDC-7 & 8) and Tail Pulley Conveyor (4-DDC-4), 4-DDC-4 discharge, ~~3~~5000 CFM, 4-DC-53 |
| 0.00 | Dust Collector at top of Dome #1, 4-DDC-5 discharge, Transfer Pan Conveyor (4-DDC-6), 4000~~2600~~ CFM, 4-DC-49 |
| 0.00 | Dust Collector at top of Dome #2, 4-DDC-6 discharge, 2600 CFM, 4-DC-50 |
| | Dust Collector at top of Dome #3, 4-DDC-9 discharge, 4000 CFM, 4-DC-51 |
| | Dust Collector on Reclaim Conveyer between 4-SD-3 and 4-SD-1, 4000 CFM, 4-DC-61 |

| | |
|---|---|
| 7.50 | Pan Conveyor - from top of 4-SS-4 to Dome #1, 32" wide 320 MTPH, 4-DDC-5 |
| 20.00 | Pan Conveyor - from top of Dome #1, to Dome #2, 32" wide 320 MTPH, 4-DDC-6 |
| 15 | Pan Conveyor – top of Dome #1 to Dome #3 ??" wide 320 MTPH, 4-DDC-9 |
| 2~~0~~5.00 | Pan Conveyor - in Tunnel under Dome #3 and Dome #1, to 4-DDC-4, 32" wide 320 MTPH, 4-DDC-7 |
| 20.00 | Pan Conveyor - in Tunnel under Dome #2, to 4-DDC-4, 32" wide 320 MTPH, 4-DDC-8 |
| 1.00 | Flow Shutoff Valve at center of Dome #2, 4-FSV-10 |
| 0.00 | Manual Flow Shutoff Valve under Dome #2, 4-FSV-11 |
| 1.00 | Flow Shutoff Valve under Dome #2, farthest from 4-SS-4, 4-FSV-12 |
| 1.00 | Flow Shutoff Valve under Dome #1, closest to 4-SS-4, 4-FSV-3 |
| 0.00 | Manual Flow Shutoff Valve under Dome #1, 4-FSV-4 |
| 1.00 | Flow Shutoff Valve at center of Dome #1, 4-FSV-5 |
| 0.00 | Manual Flow Shutoff Valve under Dome #1, 4-FSV-6 |
| 1.00 | Flow Shutoff Valve under Dome #1, farthest from 4-SS-4, 4-FSV-7 |
| 1.00 | Flow Shutoff Valve under Dome #2, closest to 4-SS-4, 4-FSV-8 |
| 0 | Air Actuated Flow Shutoff Valves under Dome #3, 4-FSV-13 thru 17 |
| 0.00 | Manual Flow Shutoff Valve under Dome #2, 4-FSV-9 |
| 0.00 | Gate - at discharge of 4-DDC-3, clinker to 4-SS-4, 4-GA-146 |
| 0.00 | Gate - at discharge of 4-DDC-3, clinker to 4-DDC-5, 4-GA-147 |
| 0.00 | Isolation Gate for 4-DC-49 dust collector air from 4-DDC-6 tail, 4-GA-148 |
| 0.00 | Gate at discharge of 4-DDC-5, clinker to Dome #1, 4-GA-149 |
| 0.00 | Gate at discharge of 4-DDC-5, clinker to 4-DDC-6, 4-GA-150 |
| 0.00 | Gate at top of 4-SS-4, dedust line for Tail of 4-DDC-5, 4-GA-151 |
| 1.00 | Hoist - Motorized Trolley at top of Dome #2, 4-HO-10 |
| 7.50 | Hoist - Motorized Trolley at 4-DDC-5 Tower, lift, 4-HO-8 |
| 0.5 | Hoist - Motorized Trolley at 4-DDC-5 Tower, travel, 4-HO-8 |
| 1.00 | Hoist - Motorized Trolley at top of Dome #1, 4-HO-9 |
| 15 | Hoist – Motorized Trolley at top of Dome #3, 4-HO-11 |
| 15 | Hoist – Motorized Trolley under Dome #3, 4-HO-12 |
| 0.00 | Storage Dome #1 Type II clinker, 4-SD-1, 42,000 Ton |
| 0.00 | Storage Dome #2 Type III clinker, 4-SD-2, 42,000 Ton |
| | Storage Dome #3 Type II/V clinker, 4-SD-3, 42,000 Ton |
| 0.00 | Dome Electrical Room #14, ER-14 |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained according to the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

3. The owner/operator (o/o) shall limit the annual process throughput to 800,000 tons per year. Records of monthly and yearly throughput shall be kept.

4. Once the construction of this permit unit is completed, there will be no outside clinker storage other than the existing storage areas connected to B001034 and B001035, except under emergency conditions.

5. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C009583 (4-DC-49), C009585 (4-DC-50), ~~and~~ C009587 (4-DC-53), C014322 (4-DC-51), and C014323 (4-DC-61).

6. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.

7. All ingress to and egress from the clinker storage domes shall be kept secure and shut during all times clinker is entering the domes.
[District Rule 401]

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**43. DUST COLLECTOR FOR CLINKER DOME (4-DC-49) - MDAQMD PERMIT; C009583:**

Industrial Accessories Co. Model No. 96TB-BHT-64:S6 baghouse with ~~838~~TBD sq. ft. cloth area provided by 64-96" lg. 16 oz. polyester bags, 4000~~2,600~~ dscfm, ~~3.10:1~~TBD air to cloth ratio, top bag removal, side mounted Twin City fan CW-BH, ~~20~~ TBD H.P., TEFC, 1800 RPM, 3-60-480V Motor. This unit serves clinker dome 1 and pan conveyors 4-DDC-5 and 4-DDC-6.

PERMIT CONDITIONS:

~~1. The owner/operator (o/o) shall install, operate and maintain this dust collector according to the recommendations of the manufacturer/supplier, and sound engineering principles.~~

~~2. The o/o shall install and maintain a device which measures the pressure differential across the bags.~~

~~3. This baghouse shall discharge no more than 0.22 lb/hour at a maximum concentration of 0.01 gr/dscf.~~

~~4. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.~~

~~5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.~~

~~6. The o/o shall conduct periodic monitoring per NESHAP Subpart LLL requirements.~~

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 204]

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.
[District Rules 1203 (D)(1)(d)(ii) and 1303]

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.
[District Rule 1303]

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4. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.
[District Rule 1303]

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5. This air pollution control device shall operate concurrently with the Clinker Dome under District Permit B009582.
[District Rule 1303]

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6. This air pollution control device shall discharge no more than 0.17 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, an initial source test as outlined in condition 10, and a maintenance and inspection program as outlined in condition 8.
[District Rule 1303 – basis: BACT]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

8. The owner/operator shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63 Subpart LLL. The owner/operator 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) Reading of baghouse pressure differential, date and value, in the same frequency

of the stack observations required by (b), below;

(b) Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary USEPA Method 9 if visible emissions are detected). If no visible emissions are observed for six consecutive months the frequency can change to semi-annually. If no emissions are observed semiannually the frequency can be changed to annually. If any visible emissions are observed frequency reverts to monthly until no visible emissions are observed for six consecutive months;

(c) Annual bag and bag suspension system inspection date and results;

(d) Date of bag replacements; and,

(e) Date and nature of any system repairs.

[District Rule 1203(D)(1)(d)(ii), 1303(A); 40 CFR 63.1350(f), 1355(g)]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

10. The owner/operator shall conduct an initial compliance test to demonstrate compliance with the BACT-based emission limit and concentration of condition 6. The owner/operator must provide a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required compliance/performance 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/performance test date so that an observer may be present. The final compliance/performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/performance test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rule 1303 – basis: BACT]

11. 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]

**44. DUST COLLECTOR FOR CLINKER DOME (4-DC-50) - MDAQMD PERMIT; C009585:**

Industrial Accessories Co. Model No. 96TB-BHT-64:S6 baghouse with 838 sq. ft. cloth area provided by 64 – 96" lg. 16 oz. polyester bags, 2,600 dscfm, 3.10:1 air to cloth ratio, top bag removal, side mounted Twin City fan CW-BH, 20 H.P., TEFC, 1800 RPM, 3-60-480V Motor.

PERMIT CONDITIONS:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector according to the recommendations of the manufacturer/supplier, and sound engineering principles.

2. The o/o shall install and maintain a device which measures the pressure differential across the bags.

3. This baghouse shall discharge no more than 0.22 lb/hour at a maximum concentration of 0.01 gr/dscf.

4. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

6. The o/o shall conduct periodic monitoring per NESHAP Subpart LLL requirements.

**45. DUST COLLECTOR FOR CLINKER DOME (4-DC-53) - MDAQMD PERMIT; C009587:**

Mikropul Pulsaire Model 1-F-2 style baghouse, equipped with a 30 hp fan generating 5,000 dscfm (air to cloth ratio of 3.57:1) and a cloth area of 1,399 sq ft.

PERMIT CONDITIONS:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector according to the recommendations of the manufacturer/supplier, and sound engineering principles.

2. The o/o shall install and maintain a device which measures the pressure differential across the bags.

3. This baghouse shall discharge no more than 0.43 lb/hour at a maximum concentration of 0.01 gr/dscf.

4. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

6. The o/o shall conduct periodic monitoring per NESHAP Subpart LLL requirements.

7. Unless required by NESHAP Subpart LLL requirements, this equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

**46. DUST COLLECTOR FOR CLINKER COOLER TRANSFER (4-DC-14) - MDAQMD PERMIT; ~~C001342~~C014325:**

~~*(Cancelled)*~~

Dust collection system manufactured by Parker BHA, Custom Model, with an airflow of 2,500 acfm, cloth area 720 sq. ft., and an air to cloth ratio of 3.4:1, equipped with 100% Spunbond Polyester with Preveil ePTFE membrane. Fan motor (5-FA-41A) rated at 7.5 hp. This unit serves transfer from 4-BC-5 to 4-BC-6.

PERMIT CONDITIONS

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rule 204]

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years. [District Rules 1203(D)(1)(d)(ii) and 1303]

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column. [District Rule 1303]

4. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions. [District Rule 1303]

5. This air pollution control device shall operate concurrently with the Clinker Transfer and Inside Storage under District Permit B000983. [District Rule 1303]

6. This air pollution control device shall discharge no more than 0.11 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, an initial source test as outlined in condition 10, and a maintenance and inspection program as outlined in condition 8. [District Rule 1303 – basis: BACT]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity. [40 CFR 63, Subpart LLL]

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8. The owner/operator shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63 Subpart LLL. The owner/operator 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) Reading of baghouse pressure differential, date and value, in the same frequency of the stack observations required by (b), below;
   (b) Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary USEPA Method 9 if visible emissions are detected). If no visible emissions are observed for six consecutive months the frequency can change to semi-annually. If no emissions are observed semiannually the frequency can be changed to annually. If any visible emissions are observed frequency reverts to monthly until no visible emissions are observed for six consecutive months;
   (c) Annual bag and bag suspension system inspection date and results;
   (d) Date of bag replacements;
   (e) Date and nature of any system repairs; and
   (f) Hours operated per each calendar month, summarized annually (based on installed hour timer)

   [District Rule 1203(D)(1)(d)(ii), 1303(A); 40 CFR 63.1350(f), 1355(g)]

9. This equipment is subject to and shall comply with all applicable requirements of 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.
   [40 CFR 63, Subpart LLL]

10. The owner/operator shall conduct an initial compliance test to demonstrate compliance with the BACT-based emission limit and concentration of condition 6. The owner/operator must provide a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required compliance/performance 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/performance test date so that an observer may be present. The final compliance/performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/performance test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
    [District Rule 1303 – basis: BACT]

11. This dust collector shall not operate for more than 6000 hours in any consecutive 12-month period.
    [District Rule 1303]

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12. Owner/operator shall install and maintain a non-resettable hour timer on this unit.
    [District Rule 1303]

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13. 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]

**47. DUST COLLECTOR CLINKER DOME (4-DC-51) – MDAQMD PERMIT C014322**

Dust collection system manufactured by TBD, TBD Model, with a maximum airflow of 4,000 acfm, cloth area TBD sq. ft., and an air to cloth ratio of TBD, equipped with TBD filter type. Fan motor (TBD) rated at TBD hp. This unit serves clinker dome #3 and 4-DDC-9 to 4-SD-3.

PERMIT CONDITIONS

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 204]

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.
[District Rules 1203(D)(1)(d)(ii) and 1303]

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.
[District Rule 1303]

4. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.
[District Rule 1303]

5. This air pollution control device shall operate concurrently with the Clinker Dome under District Permit B009582.
[District Rule 1303]

6. This air pollution control device shall discharge no more than 0.17 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, an initial source test as outlined in condition 10, and a maintenance and inspection program as outlined in condition 8.
[District Rule 1303 – basis: BACT]

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7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

8. The owner/operator shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63 Subpart LLL. The owner/operator 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) Reading of baghouse pressure differential, date and value, in the same frequency of the stack observations required by (b), below;
   (b) Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary USEPA Method 9 if visible emissions are detected). If no visible emissions are observed for six consecutive months the frequency can change to semi-annually. If no emissions are observed semiannually the frequency can be changed to annually. If any visible emissions are observed frequency reverts to monthly until no visible emissions are observed for six consecutive months;
   (c) Annual bag and bag suspension system inspection date and results;
   (d) Date of bag replacements; and,
   (e) Date and nature of any system repairs.
   [District Rule 1203(D)(1)(d)(ii), 1303(A); 40 CFR 63.1350(f), 1355(g)]

9. This equipment is subject to and shall comply with all applicable requirements of 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.
[40 CFR 63, Subpart LLL]

10. The owner/operator shall conduct an initial compliance test to demonstrate compliance with the BACT-based emission limit and concentration of condition 6. The owner/operator must provide a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required compliance/performance 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/performance test date so that an observer may be present. The final compliance/performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/performance test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rule 1303 – basis: BACT]

11. 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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**47A. DUST COLLECTOR FOR CLINKER DOME (4-DC-61) – MDAQMD PERMIT C014323:**

Dust collection system manufactured by TBD, TBD Model, with a maximum airflow of 4,000 acfm, cloth area TBD sq. ft., and an air to cloth ratio of TBD, equipped with TBD filter type. Fan motor (TBD) rated at TBD hp. This units serves clinker dome 1, transfer pan conveyor 4-DDC-5, and transfer pan conveyor 4-DDC-6

PERMIT CONDITIONS

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rule 204]

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years. [District Rules 1203(D)(1)(d)(ii) and 1303]

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.
[District Rule 1303]

4. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags/filters that assures compliance these conditions.
[District Rule 1303]

5. This air pollution control device shall operate concurrently with the Clinker Dome under District Permit B009582.

6. This air pollution control device shall discharge no more than 0.17 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, an initial source test as outlined in condition 10, and a maintenance and inspection program as outlined in condition 8.
[District Rule 1303 – basis: BACT]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

8. The owner/operator shall conduct a minimum program of inspection and maintenance on

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this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63 Subpart LLL. The owner/operator 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) Reading of baghouse pressure differential, date and value, in the same frequency of the stack observations required by (b), below;

(b) Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary USEPA Method 9 if visible emissions are detected). If no visible emissions are observed for six consecutive months the frequency can change to semi-annually. If no emissions are observed semiannually the frequency can be changed to annually. If any visible emissions are observed frequency reverts to monthly until no visible emissions are observed for six consecutive months;

(c) Annual bag and bag suspension system inspection date and results;

(d) Date of bag replacements; and,

(e) Date and nature of any system repairs.

[District Rule 1203(D)(1)(d)(ii), 1303(A); 40 CFR 63.1350(f), 1355(g)]

9. This equipment is subject to and shall comply with all applicable requirements of 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.
[40 CFR 63, Subpart LLL]

10. The owner/operator shall conduct an initial compliance test to demonstrate compliance with the BACT-based emission limit and concentration of condition 6. The owner/operator must provide a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required compliance/performance 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/performance test date so that an observer may be present. The final compliance/performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/performance test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rule 1303 – basis: BACT]

11. 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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**47B. STORAGE – CLINKER BIN - MDAQMD PERMIT; T001031:**
79,000 gallons - 4-SS-5 Clinker Bin, 717 tons

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permit C001029 (4-DC-12).

**48. BAGHOUSE - MDAQMD PERMIT; C001029:**

Serving Clinker to Storage Bin 4-SS-5 via 4-BC-2 and 3 under permit No. T001031 and equipment under permit Nos. B000975, B001032, T002096, and T010019:
4-DC-12 Baghouse, Zurn pulse jet model ZJ-144-8, A/C ratio 4.9:1, 3,000 acfm, cloth area 714 sq. ft.
4-FA-71 Blower, 15 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**49. STORAGE – CLINKER - MDAQMD PERMIT; T002094:**

4-SS-7 Clinker Silo, 2,500 tons
4-SS-8 Clinker Silo, 2500 tons

PERMIT CONDITIONS:

1. Silos shall not receive nor unload materials unless each one used is vented to the specific air pollution control equipment that is operating as per valid District permits C000999 (4-DC-45) under B001032.

**50. STORAGE – GYPSUM AND KILN DUST - MDAQMD PERMIT; T002096:**

5-SS-2 Gypsum Bin, 77 tons
5-SS-6 Kiln Dust Silo, 2,500 tons

PERMIT CONDITIONS:

1. Bin 5-SS-2 shall not receive incoming material unless it is vented to air pollution control equipment in operation under valid District permit C001029 (4-DC-12) under T001031 and C000999 under B001032.

2. Silo 5-SS-6 shall not receive incoming material unless it is vented to air pollution control equipment in operation under valid District permit C012290 (5-DC-19) under B012291.

**50A. DUST SHUTTLING SYSTEM - MDAQMD PERMIT; B012291:**

Various equipment which delivers kiln dust from the kiln mill dust collector via a positive displacement blower and pneumatic conveying system to storage silo 5-SS-6, serviced by the dust collector under valid District permit C012290.

| Capacity (hp) | Equipment Description |
|---|---|
| 7.5 | 3-SC-46, Screw Conveyor |
| | 3-GA-104, Double Dump Flap Valve |
| | Pneumatic Conveyor, 10" steel pipe |
| | 5-SS-6, Kiln Dust Storage Silo (2,500 ton capacity) (T002096) |
| | 5-DC-19, Dust Collector for Dust Shuttling System (C012290) |
| 40 | 3-FK-01, Fuller Pump |
| 300 | 3-AC-03, Air Compressor |

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The storage silo (5-SS-6) associated with this Dust Shuttling System shall not receive material unless the associated air pollution control device under District permit C012290 is concurrently operating.

3. This system is limited to 105,000 tons per year of product.

4. The owner/operator shall maintain records to demonstrate compliance with condition 3, above.

5. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**50B. DUST COLLECTOR FOR DUST SHUTTLING SYSTEM (5-DC-19) - MDAQMD PERMIT; C012290:**

Dust collection system manufactured by Mikropul, Model 100S-8-20B, with an airflow of 4,856 acfm, cloth area 975 sq. ft., and an air to cloth ratio of 4.98:1. Fan motor rated at 20 hp. Serves the Kiln Dust Storage Silo (5-SS-6) under T002096 of the Dust Shuttling System under District Permit B012291.

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the loading of the Kiln Dust Storage Silo (5-SS-6) under District Permit T002096 of the Dust Shuttling System under District permit B012291.

6. This air pollution control device shall discharge no more than 0.42 pounds per hour of PM10 at a maximum concentration of 0.01grains/dscf at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.
[District Rule 1303 - NSR Requirements]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. 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 1303 – NSR Requirements]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**51. SILO, LIMESTONE - MDAQMD PERMIT; T010019:**

| Capacity (gallons) | Equipment Description |
|---|---|
| 50,000 | 5-SS-19 Limestone silo, 300 tons, 50,000 gallons |
| | 5-GA-52 Diverter gate into 5-SS-19 |
| | 5-GA-53 Cut off gate at 5-SS-19 discharge |
| | 5-WF-18 Weigh feeder at discharge of 5-SS-19 with 0.75 hp motor |
| | 5-CD-7 Clean out drag conveyer underneath 5-WF-18 with 0.75 hp motor |

PERMIT CONDITIONS:

1. Silo 5-SS-19 shall not receive incoming material unless it is vented to air pollution control equipment in operation under valid District permit C001029 (4-DC-12) under T001031.

**52. TANK - CLINKER HOLDING SYSTEM - MDAQMD PERMIT; T002228:**
For Kiln Emergency Bypass Clinker.

| Capacity (gallons) | Equipment Name |
|---|---|
| | 4-GA-19C Clinker Bypass Gate on 3-way chute, 1 hp |
| | 4-CD-2 Drag Conveyor to 4-SS-2, 15 hp |
| 48,930 | 4-SS-2 Clinker Holding Gate |
| | Tank Discharge Gate |

PERMIT CONDITIONS:

1. Silos shall not receive nor unload materials unless each one used is vented to the specific air pollution control equipment that is operating as per valid District permit No. C002229.

**53. BAGHOUSE - MDAQMD PERMIT; C002229:**
Serving Clinker Holding Tank under permit T002228:
4-DC-47 Baghouse, Dust Collector Fabricmax model FJBW 64-8, Pulse Jet, A/C ratio 5.8:1, 3,500 acfm at 212 degrees F, cloth area of 603 sq. ft.; stack 14" dia. x 53'
4-FA-47 Fan, Exhaust, 20 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**54. CLINKER LOADOUT SYSTEM - MDAQMD PERMIT; T001030:**
8,300 gallons - 4-SS-3 Kiln Dust Bin

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permit C002782 (4-DC-46).

2. When point of discharge of product is not picked up by C002782 materials processed shall contain sufficient natural moisture to ensure compliance with Rules 401, 402, and 403.

## *PROCESS: 4- GYPSUM & ADMIX FOR FINISH MILLS #1 & #3*

**55. GYPSUM UNLOADING - MDAQMD PERMIT; B001859:**

| Capacity (hp) | Equipment Name |
|---|---|
| | 5-SS-21 Gypsum Hopper, 18 tons |
| 10.00 | 5-BC-20 Belt Conveyor |
| 25.00 | 5-BE-17 Bucket Elevator |
| 15.00 | 5-BC-21,22 Bucket Conveyors, 7.5 hp ea. |
| 30.00 | 5-BC-23,24 Bucket Conveyors, 15 hp ea. |
| 2.00 | 5-SC-25 Screw Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

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

that is operating as per valid District permit's C000976 (5-DC-20) and C003209 (5-DC-23).

3. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

**56. <u>BAGHOUSE FOR ADMIX STORAGE (5-DC-23) - MDAQMD PERMIT; C003209:</u>**
Serving Admix storage conveyers 5-BC-23 and 5-BC-24. Flex-Kleen, manufactured by Research-Cottrell, model 84-WRTC-64 (III) with the following parameters/design criteria:

A. 5-DC-23. 4,000 acfm are drawn through the bags at -8.0 in w.g. operating pressure (design pressure is 17 in w.g., maximum) at a maximum temperature of 400 degrees F, by an electric motor driven fan (5-FA-23) rated at 10 hp.

B. The A/C ratio is 5.9:1 and the total cloth area is 678 $ft^2$.

C. Dust accumulation is sequentially timed for compressed air blowing of the bags, which are woven fiber-glass.

<u>PERMIT CONDITIONS:</u>

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

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.

3. This baghouse 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 provided to the District upon request.

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.

5. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.

(c) 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.

6. This baghouse shall operate concurrently with the equipment listed in District permit Nos. B001859 and T002095 and be operated when previously mentioned conveyor belts are receiving and/or discharging material.

**57. STORAGE – GYPSUM/CLAY - MDAQMD PERMIT; T002139:**

For Transfer to Finish Mills 1 and 3.

| Equipment Name |
|---|
| 5-SS-11A Gypsum Bin, 500 tons |
| 5-SS-12A Clay Bin, 500 tons |

PERMIT CONDITIONS:

1. This equipment shall be in operation in accordance with the manufacturers specifications concurrently with the equipment described in valid District permit B001859, control C000976 (5-DC-20).

**58. SILO – STORAGE FOR ADDITIVES - MDAQMD PERMIT; T002095:**

Gypsum Clay for Dry or Wet Raw

| Equipment Name |
|---|
| 5-SS-7 Silo, 175 tons |
| 5-SS-8 Silo, 175 tons |
| 5-SS-9 Silo, 100 tons |
| 5-SS-10 Silo, 175 tons |
| 5-SS-11 Silo, 75 tons |
| 5-SS-12 Silo, 100 tons |

PERMIT CONDITIONS:

1. Materials processed shall contain sufficient natural/added moisture to assure 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-site and used to

assure compliance.

2. If materials are dry, this tankage shall not be filled nor emptied unless it is vented to air pollution control equipment that is operating as per valid District permit C003209 (5-DC-23) under B001859.

**59. SILO – STORAGE - MDAQMD PERMIT; T002092:**

Gypsum and ADMX for use in Finish Mills or Wet Raw Mills

| Equipment Name |
|---|
| 5-SS-13 Silo, 200 tons |
| 5-SS-14 Silo, 100 tons |
| 5-SS-15 Silo, 100 tons |

PERMIT CONDITIONS:

1. Materials processed shall contain sufficient natural/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-site and used as necessary to assure compliance.

2. If materials are dry, this tankage shall not be filled nor emptied unless it is vented to air pollution control equipment that is operating as per valid District permit C003209 (5-DC-23) under B001859.

**60. GYPSUM UNLOADING TO STORAGE - MDAQMD PERMIT; B000975:**

| Capacity (hp) | Equipment Name |
|---|---|
| | 5-SS-1 Hopper, 25 tons |
| 100.00 | 5-BC-1 Belt Conveyor |
| 15.00 | 5-BC-2 Belt Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000999 (4-DC-45) under B001032, C001029 (4-DC-12) under T001031, and C002785 (5-DC-15A & B).

3. Both doorways to the unloading area shall be covered by curtains, with at least 90 percent of the doorway area blocked by curtain.

**61. BAGHOUSE - MDAQMD PERMIT; C002785:**

Serving Gypsum Unload to Storage under permit B000975:
Gypsum Dump Hopper Enclosure
5-DC-15A - Baghouse, A/C ratio 4.5:1, 13,000 acfm
5-DC-15B - Baghouse, A/C ratio 4.5:1, 13,000 acfm
5-FA-15A - Blower, 50 hp
5-FA-15B - Blower, 50 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

## *PROCESS: 5 – FINISH MILLS #1, #2, #3 & #4*

**62. MILL NO. 1 - FINISH (5-FM-1) SYSTEM - MDAQMD PERMIT; B001034:**

| Capacity (hp) | Equipment Name |
|---|---|
| 1.50 | 5-WF-3,5,7 Weigh Feeders, 3 @ 0.5 hp ea |
| 3.00 | 5-BC-10 Belt Conveyor |
| 10.00 | 5-BC-11,12 Belt Conveyors, 2 @ 5 hp ea |
| | 4-SS-9 Clinker Bin (inside), 400 tons |
| 10.00 | 5-CD-4 Drag Conveyor |
| 0.25 | 5-WF-14 Weigh Feeder |
| 5.00 | 5-BC-12 Belt Conveyor |
| 5.00 | 5-AB-11 Air Blower for 5-AS-11,12,23,24,25 |
| 15.00 | 5-AB-10 Air Blower for 5-AS-10 |
| 200.00 | 5-AC-14 Air Compressor |
| 1500.00 | 5-MD-10 Motor Drive for 5-FM-1 Mill |
| 25.00 | 5-MG-10 Generator for FM-1 Mill |

| | |
|---|---|
| 1.00 | 5-FA-13 Air Cooling Fan |
| 15.00 | 5-BE-10 Bucket Elevator |
| 20.00 | 5-BE-11 Bucket Elevator |
| 100.00 | 5-SE-1 Air Separator |
| 60.00 | 5-CO-10 Cement Cooler |
| 150.00 | 5-FK-10 Fuller Pump |
| 5.00 | 5-SC-8 Screw Conveyor |
| 5.00 | 5-SC-10 Screw Conveyor |
| 1.00 | 5-RV-9 Rotary Valve |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000961 (5-DC-10), C000995 (5-DC-9), and C012292 (5-DC-8), and C012739 (5-DC-51).

3. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

4. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL-National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**63. BAGHOUSE - MDAQMD PERMIT; C000961:**
Serving 5-FM-1 discharge and transfer of product under permit No. B001034:
5-DC-10 Baghouse, Mikro Pulsaire model 180-F-4, A/C ratio 4.29:1, 15,000 acfm, cloth area 3,497 sq. ft. 5-FA-10 Blower, 75 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**64. <u>BAGHOUSE - MDAQMD PERMIT; C000995:</u>**

Serving 5-FM-1 product intermediate transfer to storage, under permit No. B001034:
5-DC-9 Baghouse, Mikro Pulsaire model 1-F-1, A/C ratio 7.15:1, 5,000 acfm, cloth area 700 sq. ft.
5-FA-9 Blower, 15 hp

<u>PERMIT CONDITIONS:</u>

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**65. <u>BAGHOUSE FOR FINISH MILL NO. 2 (5-DC-6) - MDAQMD PERMIT; C001000:</u>**

Dust collection system manufactured by Parker BHA, Model Year 2019, Custom Fabrication, with an airflow of 20,000 acfm, cloth area 10,560 sq.ft., and an air to cloth ratio of 1.9:1. Fan motor (5-FA-6) rated at 150 hp.

<u>PERMIT CONDITIONS:</u>

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator 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 (5) years.

3. 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 6 inches of water column.

4. The owner/operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with these conditions.

5. This air pollution control device shall operate concurrently with the Finish Mill No. 2 System under District Permit B001036.

6. This air pollution control device shall discharge no more than 0.9 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.
[District Rule 1303]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

8. 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 1303]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

10. 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]

## 66. MILL NO. 3 - FINISH (5-FM-3) SYSTEM - MDAQMD PERMIT; B001035:

| Capacity (hp) | Equipment Name |
|---|---|
| | 4-SS-10 Clinker Bin (inside storage) 480 tons |
| 0.50 | 5-WF-10 Weigh Feeder |
| 2.00 | 5-WF-11 Weigh Feeder |
| 0.25 | 5-WF-13 Weigh Feeder |
| 0.50 | 5-WF-18 Weigh Feeder |

| | |
|---|---|
| 10.00 | 5-CD-5 Drag Conveyor |
| 5.00 | 5-SC-20 Screw Conveyor |
| 1500.00 | 5-MD-12 Motor Drive for 5-FM-3 Mill |
| 25.00 | 5-MG-12 Generator for FM-3 Mill |
| 1.00 | 5-FA-14 Air Cooling Fan |
| 25.00 | 5-BE-15 Bucket Elevator |
| 20.00 | 5-BE-16 Bucket Elevator |
| 5.00 | 5-AB-13 Air Blower for 5-AS-19, 20, 21, 22 |
| 5.00 | 5-SC-19 Screw Conveyor |
| 125.00 | 5-SE-3 Air Separator |
| 50.00 | 5-CO-13 Cement Cooler |
| 125.00 | 5-FK-12 Fuller Pump |
| 200.00 | 5-AC-13 Air Compressor |
| 5.00 | 5-SC-15 Screw Conveyor |
| 7.50 | 5-BC-13 Belt Conveyor |
| 3.00 | 5-SC-16 Screw Conveyor |
| 0.50 | 5-RV-11 Rotary Valve |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000965 (5-DC-11) and C001469 (5-DC-12).

3. All covers, lids, gaskets, etc. shall be in place at all times during operation of this equipment and shall be maintained to assure proper fit to minimize fugitive dust.

4. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL-National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**67. BAGHOUSE - MDAQMD PERMIT; C000965:**

Serving 5-FM-3 feed and discharge transfer, including recycle, via 5-BE-15, 16, under permit No. B001035:
5-DC-11 Baghouse, Mikro Pulsaire model 1-F-1, A/C ratio 7.15:1, 5,000 acfm, cloth area 700 sq. ft.
5-FA-11 Blower, 15 hp

PERMIT CONDITIONS:

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

principles.

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.

3. This baghouse 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 provided to the District upon request.

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.

**68. BAGHOUSE - MDAQMD PERMIT; C000998:**
***(Cancelled)***

**68A. DUST COLLECTOR FOR FINISH MILL 1 (5-DC-8) - MDAQMD PERMIT; C012292:**
Dust collection system manufactured by BHA, Model HZ-05-18-5, with an airflow of 2,400 acfm, cloth area 851 sq. ft., and an air to cloth ratio of 8.28:1. Fan motor rated at 7.5 hp.

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the loading of feed to the Finish Mill 1 under District Permit B001034.

6. This air pollution control device shall discharge no more than 0.21 pounds per hour of PM10 at a maximum concentration of 0.01grains/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]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. 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 1303]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**68B**. **DUST COLLECTOR FOR FINISH MILL 1 (5-DC-51) - MDAQMD PERMIT; C012739:**
Dust collection system manufactured by BHA, Model HZ-05-18-5, with an airflow of 2,400 acfm, cloth area 851 sq. ft., and an air to cloth ratio of 8.28:1. Fan motor (5-FA-51) rated at 7.5 hp.

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the loading of feed to the Finish Mill 1 under District Permit B001034.

6. This air pollution control device shall discharge no more than 0.21 pounds per hour of $PM_{10}$ at a maximum concentration of 0.01grains/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]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. 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 1303]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**68C**. **DUST COLLECTOR FOR FINISH MILL 2 (5-DC-52) - MDAQMD PERMIT; C012740:**
Dust collection system manufactured by BHA, Model HZ-05-18-5, with an airflow of 2,400 acfm, cloth area 851 sq. ft., and an air to cloth ratio of 8.28:1. Fan motor (5-FA-52) rated at 7.5 hp.

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the loading of feed to the Finish Mill 2 under District Permit B001036.

6. This air pollution control device shall discharge no more than 0.21 pounds per hour of $PM_{10}$ at a maximum concentration of 0.01grains/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]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. 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 1303]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**69. BAGHOUSE - MDQMD PERMIT; C001469:**

Serving 5-FM-3 discharge port via 5-CY-12 and collected by 5-FK-12 under permit No. B001035: 5-DC-12 Baghouse, 4-unit, Rees Blowpipe model 80-F, A/C ratio 1.98:1, 11,000 acfm, cloth area 5,552 sq. ft. 5-FA-12 Blower, 100 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**70. MILL NO. 4 - FINISH (5-FM-4) SYSTEM - MDAQMD PERMIT; B001033:**

| Capacity | Equipment Name |
|---|---|

| (hp) | |
|---|---|
| 4.00 | 5-WF-1,2 Weigh Feeders, 2 @ 2 hp ea. |
| 1.00 | 5-CD-2 Drag Conveyor |
| 20.00 | 5-CD-3 Drag Conveyor |
| 50.00 | 5-BE-1 Bucket Elevator |
| 4000.00 | 5-MD-1 Motor Drive for 5-FM-4 Mill |
| 30.00 | 5-ID-1 Inching Drive |
| 30.00 | 5-AB-3 Air Blower for 5-AS-1,2,3,4,5 |
| 30.00 | 5-BE-2 Bucket Elevator |
| | 5-CY-1 Cyclone |
| 250.00 | 5-SE-6 Mechanical Separator |
| 125.00 | 5-CO-1 Cement Cooler |
| 250.00 | 5-FK-1 Fuller Pump |
| 250.00 | 5-AC-1 Air Compressor |
| 300.00 | 5-AC-2 Air Compressor |
| 5.00 | 5-SC-2 Screw Conveyor |
| 500.00 | 5-FA-3 Draft Fan |
| 5.0 | 5-RV-3 Rotary Feeder |
| 5.00 | 5-RV-4 Rotary Feeder |
| 25.00 | 5-AB-5 Air Slide Fan |
| 125.00 | 5-FA-2 Draft Fan |
| 1.00 | 5-LP-28 Valve |
| 1.00 | 5-WF-19 Weigh Feeder |
| 8.00 | 5-TC-1,2 Tube Drag Chain Conveyors, 2 @ 4 hp ea. |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001037 (5-DC-2), and C009579 (5-DC-3).

3. The owner/operator (o/o) shall limit the annual process throughput to 1,138,800 tons per year. Records of monthly and yearly throughput shall be kept.

4. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**71. BAGHOUSE FOR FINISH MILL NO. 4 (5-DC-2) - MDAQMD PERMIT; C001037:**
Serving 5-FM-4 for all transfer points of product discharge and also 5-BE-1 at feed, under permit No. B001033: 5-DC-2 Baghouse, Zurn model ZP-546-10, A/C ratio 2.92:1, 24,000 dscfm, cloth area 8,215 sq. ft. 5-FA-2 Blower, 75 hp

PERMIT CONDITIONS:

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

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 5 years.

3. This baghouse 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 provided to the District upon request.

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.

5. This baghouse shall discharge no more than 1.71 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf.

6. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.

7. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. The o/o shall conduct an initial compliance test per NESHAP Subpart LLL opacity requirements using USEPA Method 9.

9. The o/o shall conduct an initial PM source test per MDAQMD requirements using USEPA Method 5.

10. The o/o shall conduct periodic monitoring per NESHAP Subpart LLL requirements.

11. Within 90 days of updated permit issuance, the o/o shall perform an initial compliance test on this unit. This test shall demonstrate that this equipment is capable of operating in compliance with the emission limits specified above.

**72. OSEPA DUST COLLECTOR FOR FINISH MILL NO. 4 (5-DC-3) - MDAQMD PERMIT; C009579:**

Serving 5-FM-4 separator: 5-DC-3 Baghouse, FLS AirTech model 2M7565(12) 6, with 1,512 bags @ 6" by 12’ in size, A/C ratio 2.63:1, 75,000 dscfm, cloth area 28,501 sq. ft. 5-FA-3 Blower, 500 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device.

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.

5. This baghouse shall discharge no more than 3.21 pounds per hour of PM10 at a maximum concentration of 0.005 gr/dscf.

6. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

7. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. The o/o shall conduct periodic monitoring per NESHAP Subpart LLL requirements.

**73. BAGHOUSE - MDAQMD PERMIT; C001044:**
***(Cancelled)***

**74. FINISH MILL NO. 2 SYSTEM (5-FM-2) - MDAQMD PERMIT; B001036:**

| Capacity (hp) | Equipment Name |
|---|---|
| 5.50 | 5-WF-4, 6, 8 Weigh Feeders @ 1.5, 2 and 2 hp respectively |
| 5.00 | 5-BC-14 Belt Conveyor |
| 50.00 | 5-SC-27 Screw Conveyor |
| 4,400.00 | 5-MD-11 Motor Drive for the Mill |
| 25.00 | 5-MG-11 Generator for Mill |
| 15.00 | 5-FA-11 Air Fan |
| 15.00 | 5-AB-12 Air Blower for 5-AS-13, 14, 15, 16, 17, and 18. |
| 0.00 | 5-CY-6 and 7: Cyclones |
| 7.50 | 5-SC-13 Screw Conveyor |
| 50.00 | 5-BE-12 Bucket Elevator |
| 40.00 | 5-BE-13 Bucket Elevator |
| 600.00 | 5-SE-2 Air Separator |
| 60.00 | 5-CO-11 Cement Cooler |
| 60.00 | 5-CO-12 Cement Cooler |
| 200.00 | 5-FK-11 Fuller Pump |
| 200.00 | 5-AC-15 Air Compressor |
| 200.00 | 5-AC-16 Air Compressor |
| 5.00 | 5-SC-31 Screw Conveyor |
| 10.00 | 5-SC-32 Screw Conveyor |
| 2.00 | 5-SC-14 Screw Conveyor |
| 3.00 | 5-SC-11 Screw Conveyor |
| 3.00 | 5-SC-12 Screw Conveyor |
| 150.00 | 5-SE-01 O-SEPA Separator, (New in 1998 per application 98001627) |
| 1.00 | 5-WF-17 Weigh Feeder |
| 5.00 | 5-BC-15 Belt Conveyor |
| 2.00 | 5-WF-12 Weigh Feeder |

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. All covers, lids, gaskets and other devices and/or equipment which ensures this system's air tight integrity shall be maintained to preclude and/or minimize fugitive particulate emissions.

3. This system shall not be operated unless it is vented wholly to the following particulate emissions controls, which are operating under valid District permits: C001000 (5-DC-6), C005164 (5-DC-24), and C012740 (5-DC-52).

4. The owner/operator (o/o) shall limit the annual process throughput to 963,600 tons per year. Records of monthly and yearly throughput shall be kept.
[District Regulation XIII – NSR]

5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

6. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

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]

**75. <u>BAGHOUSE - MDAQMD PERMIT; C000976:</u>**
Serving Gypsum unloading to Bins 5-SS-11, 12, 13, 14, 15 for Mills 1 & 3, under permit No. B001859 and equipment under permit No. T002139: 5-DC-20 Baghouse, Flex-Kleen Pulse Jet Baghouse, A/C ratio 4.9:1, @ 6,000 acfm - model 120-WRBS - 80 ARR III. 5-FA-20 Blower, Fan model 294 GI/20 ARR9 - Belt Driven, 20 hp.

<u>PERMIT CONDITIONS:</u>

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**76. <u>BAGHOUSES - MDAQMD PERMIT; C001028:</u>**
Alkali Dust Bypass System for B001984: 4-DC-6 through 10. Kaiser Cement Design of 5

baghouses, 2.3: A/C ratio, with 5 blowers of 50 hp ea @13,000 acfm ea. and a 100 hp reverse air blower.

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**77. OSEPA BAGHOUSE FOR FINISH MILL NO. 2 (5-DC-24) - MDQMD PERMIT; C005164:**

Model 975512, with bags that are 5.75" in diameter by 56" long and are 975 in number. A fan rated at 350 hp draws air at a rate of 61,000 dscfm through the bags with an A/C ratio of 1.82.

PERMIT CONDITIONS:

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.

2. The o/o shall log 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.

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.

4. This baghouse shall operate concurrently with Finish Mill No. 2 System (5-FM-2) under valid District permit number B001036.

5. This baghouse shall discharge no more than 2.61 pounds per hour of PM10 at a maximum concentration of 0.005 gr/dscf.

6. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

7. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. The o/o shall conduct periodic monitoring per NESHAP Subpart LLL requirements.

## ***PROCESS: 5A – ROLLER PRESS SYSTEM FOR CLINKER***

### 78. FINISH MILL NO. 4 ROLLER PRESS SYSTEM FOR CLINKER TO 5-FM-4 FINISH GRINDING - MDAQMD PERMIT; B002405:

| Capacity (hp) | Equipment Name |
|---|---|
| 3.00 | 5-BC-41 Belt Conveyor, 30" x 38'6" |
| 15.00 | 5-BE-41 Bucket Elevator, 2' x 54'6" |
| 5.00 | 5-BC-42 Belt Conveyor, 36" x 43' |
| 1.00 | 5-MGC-1 Magnet Catcher, 24" x 4' |
| 1400.00 | 5-RP-1 (a) KHD Roller Press, RP7 120/63, Model Year 2019, Custom Fabrication, including machine frame, rollers with stud lining, feed chute with control gates, drive, and other components, 1200 mm dia. X 630 mm W, dual motor drive @ 700 hp ea. |
| 5.50 | 5-RP-1 (c) Lube Pump for bearing |
| 10.00 | 5-RP-1 (d) Hydraulic Oil Pump |
| 5.00 | 5-BC-43 Belt Conveyor, 30" x 35' |
| 20.00 | 5-BE-42 Bucket Elevator, 2' x 35' |
| 2.00 | 5-BE-42 (a) Screw Conveyor, Dust Return |
| 1.00 | 5-RV-41 Rotary Valve on Dust Return |
| 0.50 | Bearing Seal Grease Pump |
| 0.50 | Bearing Lubrication Recirc Pump |
| 0.25 | Bearing Lubrication Stirrer |

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C002406 (5-DC-41) and C013459 (5-DC-41A).

3. The owner/operator (o/o) shall limit the annual process throughput to 1,138,800 tons per year. Records of monthly and yearly throughput shall be kept.
[District Regulation XIII – NSR]

4. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

5. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

6. 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]

**79. <u>BAGHOUSE FOR FM 4 ROLL PRESS (5-DC-41) - MDAQMD PERMIT; C002406:</u>**

Serving Roller Press System for Clinker to 5-FM-4 Finish Grinding under permit B002405: 5-DC-41 Baghouse, A/C ratio 4.61:1, 6,000 acfm at 24 inches W.C., temp. 110 degrees F, cloth area of 2,300 sq. ft.; stack 24" dia. x 26'. Pickup points: discharge of Bucket Elevator 5-BE-41, Bucket Elevator 5-BE-42, Roller Press 5-RP-1, and Roll Press Feed Bin.
5-FA-41 Fan Motor, 25 hp

<u>PERMIT CONDITIONS:</u>

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

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 5 years.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the Finish Mill No. 4

Roller Press System under District Permit B002405.

6. This baghouse shall discharge no more than 0.51 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf.

7. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

8. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

9. The owner/operator shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63 Subpart LLL. The owner/operator 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) Reading of baghouse pressure differential, date and value, in the same frequency of the stack observations required by (b), below;
   (b) Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary USEPA Method 9 if visible emissions are detected). If no visible emissions are observed for six consecutive months the frequency can change to semi-annually. If no emissions are observed semiannually the frequency can be changed to annually. If any visible emissions are observed frequency reverts to monthly until no visible emissions are observed for six consecutive months;
   (c) Annual bag and bag suspension system inspection date and results;
   (d) Date of bag replacements; and,
   (e) Date and nature of any system repairs.
   [District Rule 1203(D)(1)(d)(ii); 40 CFR 63.1350(f), 1355(g)]

10. This equipment is subject to and shall comply with all applicable requirements of 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.
[40 CFR 63, Subpart LLL]

11. 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]

**79A. <u>DUST COLLECTOR FOR FM 4 ROLL PRESS (5-DC-41A) - MDAQMD PERMIT; C013459:</u>**
Dust collection system manufactured by Parker BHA, Custom Model, with an airflow of

2,500 acfm, cloth area 900 sq. ft., and an air to cloth ratio of 2.8:1. Fan motor (5-FA-41A) rated at 7.5 hp.

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the Finish Mill No. 4 Roller Press System under District Permit B002405.

6. This air pollution control device shall discharge no more than 0.11 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf at the operating conditions given in the above description. To demonstrate compliance with this condition, the owner/operator shall maintain the manufacturer's data guaranteeing the grain loading of this dust collector.
[District Rule 1303]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

8. 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 1303]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

10. 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]

**79B. DUST COLLECTOR FOR FM 4 ROLL PRESS (5-DC-42) - MDAQMD PERMIT; C013987:**

Dust collection system manufactured by Parker BHA, Custom Model, with an airflow of 2,500 acfm, cloth area 720 sq. ft., and an air to cloth ratio of 3.4:1, equipped with 100% Spunbond Polyester with Preveil ePTFE membrane. Fan motor (5-FA-41A) rated at 7.5 hp.

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the Finish Mill No. 4 Roller Press System under District Permit B002405.

6. This air pollution control device shall discharge no more than 0.11 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, an initial source test as outlined in condition 10, and a maintenance and inspection program as outlined in condition 8.
[District Rule 1303 – basis: BACT]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

8. The owner/operator shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63 Subpart LLL. The owner/operator 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) Reading of baghouse pressure differential, date and value, in the same frequency of the stack observations required by (b), below;

(b) Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary USEPA Method 9 if visible emissions are detected). If no visible emissions are observed for six consecutive months the frequency can change to semi-annually. If no emissions are observed semiannually the frequency can be changed to annually. If any visible emissions are observed frequency reverts to monthly until no visible emissions are observed for six consecutive months;
(c) Annual bag and bag suspension system inspection date and results;
(d) Date of bag replacements; and,
(e) Date and nature of any system repairs.
[District Rule 1203(D)(1)(d)(ii), 1303(A); 40 CFR 63.1350(f), 1355(g)]

9. This equipment is subject to and shall comply with all applicable requirements of 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.
[40 CFR 63, Subpart LLL]

10. The owner/operator shall conduct an initial compliance test to demonstrate compliance with the BACT-based emission limit and concentration of condition 6. The owner/operator must provide a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required compliance/performance 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/performance test date so that an observer may be present. The final compliance/performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/performance test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rule 1303 – basis: BACT]

11. 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]

**79C. DUST COLLECTOR FOR FM 4 ROLL PRESS (5-DC-43) - MDAQMD PERMIT; C013988:**

Dust collection system manufactured by Parker BHA, Custom Model, with an airflow of 2,500 acfm, cloth area 720 sq. ft., and an air to cloth ratio of 3.4:1, equipped with 100% Spunbond Polyester with Preveil ePTFE membrane. Fan motor (5-FA-41A) rated at 7.5 hp.

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the mancturer 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.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the Finish Mill No. 4 Roller Press System under District Permit B002405.

6. This air pollution control device shall discharge no more than 0.11 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, an initial source test as outlined in condition 10, and a maintenance and inspection program as outlined in condition 8.
[District Rule 1303 – basis: BACT]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.
[40 CFR 63, Subpart LLL]

8. The owner/operator shall conduct a minimum program of inspection and maintenance on this equipment, following the operations and maintenance plan requirements pursuant to 40 CFR 63 Subpart LLL. The owner/operator 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) Reading of baghouse pressure differential, date and value, in the same frequency of the stack observations required by (b), below;
   (b) Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary USEPA Method 9 if visible emissions are detected). If no visible emissions are observed for six consecutive months the frequency can change to semi-annually. If no emissions are observed semiannually the frequency can be changed to annually. If any visible emissions are observed frequency reverts to monthly until no visible emissions are observed for six consecutive months;
   (c) Annual bag and bag suspension system inspection date and results;
   (d) Date of bag replacements; and,
   (e) Date and nature of any system repairs.
   [District Rule 1203(D)(1)(d)(ii), 1303(A); 40 CFR 63.1350(f), 1355(g)]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

10. The owner/operator shall conduct an initial compliance test to demonstrate compliance with the BACT-based emission limit and concentration of condition 6. The owner/operator must provide a written performance test plan or protocol at least thirty days prior to the test date. The owner/operator must conduct all required compliance/performance 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/performance test date so that an observer may be present. The final compliance/performance test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/performance test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 1303 – basis: BACT]

11. 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]

**80. GYPSUM SILO TI BIN STORAGE - MDAQMD PERMIT; B001858:**
Via Flop Gate 5-GA-19 for FM-1

| Capacity (hp) | Equipment Name |
|---|---|
| 5.00 | 5-SC-26 Screw Conveyor |
| 40.00 | 5-FK-13 Fuller Pump |
| | 5-GA-19 Flop Gate |
| | 5-SS-17 Gypsum Bin, 66 tons |
| | 5-AC-17 Air Compressor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000972 (5-DC-17), C000996 (5-DC-16) under T000971, and C001001(5-DC-18) under B001983.

**81. BAGHOUSE - MDAQMD PERMIT; C000972:**
Serving Fly Ash Silo 5-SS-17 (which serves 5-FM-1), supplied by 5-FK-13, under permit No. B001858 and equipment under permit No. B001983:

5-DC-17 Baghouse, Mikro Pulsaire model 16S-8-30, A.C ratio 14.8:1, 2,300 acfm, cloth area 155 sq. ft.
5-FA-17 Blower, 1.5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

5. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - Portland Cement Manufacturing Facilities.

**82. BAGHOUSE - MDAQMD PERMIT; C000996:**

Serving Fly Ash truck unload to 5-SS-16 silo under permit No. T000971 and equipment under permit Nos. B001858 and B001983:
5-DC-16 Baghouse, Mikro Pulsaire model 16S-8-30, A/C ratio 6.17:1, 960 acfm, cloth area 155 sq. ft.
5-FA-16 Blower, 2 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon

request.

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.

**83. RAW MATERIALS SILOS - MDAQMD PERMIT; T000971:**

To Silo Storage:
5-VB-6, 7 Vibrators, Line to Silo
5-SS-16 Raw Material Silo, 850 tons, 102,000 gallons
5-SS-17 Gypsum Silo, 66 tons, 7,920 gallons
5-SS-18 Gypsum Silo, 66 tons, 7,920 gallons

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permit C000996 (5-DC-16).

**84. FLY ASH SILO TRANSFER TO BIN STORAGE VIA FLOP GATE 5-GA-19 FOR FM-3 USAGE - MDAQMD PERMIT; B001983:**

| Capacity (hp) | Equipment Name |
|---|---|
| | 5-SC-26 Screw Conveyor (included in B001858) |
| | 5-FK-13 Fuller Pump (included in B001858) |
| | 5-GA-19 Flop Gate (to direction 18) |
| | 5-SS-18 Fly Ash Bin, 66 tons |
| 60.00 | 5-AC-18 Air Compressor |
| 0.50 | 5-RV-18 Rotary Valve |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000972 (5-DC-17) under B001858, C000996 (5-DC-16) under T000971, C001001 (5-DC-18).

**85. BAGHOUSE - MDAQMD PERMIT; C001001:**

Serving Fly Ash via 5-FK-13 to Fly Ash silo 5-SS-18 (serving 5-FM-3), under permit No. B001983 and equipment under permit No. B001858:
5-DC-18 Baghouse, Mikropul model 16S-8-30, A/C ratio 7.15:1, 5,000 acfm, cloth

area 700 sq. ft.
5-FA-18 Blower, 5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

## ***PROCESS: 6 – CEMENT PACKING & SILO – UNITS #1, #2 & #3***

### 86. UNIT NO. 1 - CEMENT PACKING - MDAQMD PERMIT; B000993:

| Capacity (hp) | Equipment Name |
|---|---|
| 3.00 | 6-AB-14 Air Blower for Slide 6-AS-41 |
| 3.00 | 6-AB-20 Air Blower for Material Trap 6-MT-2 |
| 20.00 | 6-BE-6 Bucket Elevator |
| 20.00 | 6-BE-7 Bucket Elevator |
| 3.00 | 6-BE-10 Bucket Elevator |
| 1.00 | 6-SC-1 Screw Conveyor |
| | 6-SS-41 Cement Bin, 75 tons |
| 40.00 | 6-CP-1 Cement Packing Unit No. 1 |
| 3.00 | 6-SC-4 Screw Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permit C001464 (6-DC-4).

**87. BAGHOUSE - MDAQMD PERMIT; C001464:**

Serving Cement Packer 6-Cp-1 and Bin 6-SS-41 under permit B000993:
6-DC-4 Baghouse, Pangborn model 66, A/C ratio 1.63:1, 9,000 acfm, cloth area 5,510 sq. ft.
6-FA-4 Blower, 25 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**88. CEMENT TRUCK LOADOUT NO. 1 – STATION - MDAQMD PERMIT; B001871:**

| Capacity (hp) | Equipment Name |
|---|---|
| 2.00 | 6-AB-11 Air to Slide 6-AS-50 |
| 2.00 | 6-AB-17 Air to Material Trap 6-MT-4 |
| 7.50 | 6-AB-13 Air to Slides 6-AS-42,44,45 |
| 2.00 | 6-AB-31 Air to Pads 6-AP-61-64 |
| 2.00 | 6-AB-18 Air to Material Trap 6-MT-5 |
| 25.00 | 6-BE-4 Bucket Elevator |
| | 6-SS-61-64 Cement Bins, 4 @ 50 tons ea. |
| | 6-SS-60 Cement Bins, 200 tons |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

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

that is operating as per valid District permits C001465 (6-DC-21), C001808 (6-DC-5) under T001869, C001809 (6-DC-12) under T001869.

**89. BAGHOUSE - MDAQMD PERMIT; C001465:**

Serving Truck Cement Loadout at No. 1 Station via 6-SS-60 to 6-LS-1 under permit B001871: 6-DC-21 Baghouse, Rees Blowpipe model 480N, A/C ratio 0.4:1, 200 acfm, cloth area 496 sq. ft. 6-FA-21 Blower, 5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**90. UNIT NO. 2 - CEMENT PACKING - MDAQMD PERMIT; B001866:**

| Capacity (hp) | Equipment Name |
|---|---|
| 3.00 | 6-AB-21 Air Blower for Slide 6-AS-40 |
| 15.00 | 6-BE-8 Bucket Elevator |
| 3.00 | 6-BE-9 Bucket Elevator |
| 1.50 | 6-SC-2 Screw Elevator |
| | 6-SS-42 Cement Bin, 75 tons |
| 30.00 | 6-CP-2 Cement Packing, Unit No. 2 |
| 3.00 | 6-SC-3 Screw Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

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

that is operating as per valid District permits C001463 (6-DC-3).

**91. BAGHOUSE - MDAQMD PERMIT; C001463:**

Serving Cement Packer 6-CP-2 and Bin 6-SS-42 under permit No. B001866:
6-DC-3 Baghouse, Pangborn model 66, A/C ratio 1.63:1, 9,000 acfm, cloth area 5,510 sq. ft. 6-FA-3 Blower, 25 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**92. CEMENT TRUCK LOADOUT NO. 2 STATION - MDAQMD PERMIT; B001872:**

| Capacity (hp) | Equipment Name |
|---|---|
| 2.00 | 6-AB-10 Air to Slide 6-AS-50 |
| 2.00 | 6-AB-19 Air to Material Trap 6-MT-6 |
| 7.50 | 6-AB-12 Air to Slides 6-AS-46,47,48 |
| 3.00 | 6-AB-32 Air to Air Pads 6-AP-65-68 |
| 30.00 | 6-BE-2 Bucket Elevator |
| | 6-SS-65-68 Cement Bins, 4 @ 50 tons ea. |
| | 6-SS-69 Cement Bins, 200 tons |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001466 (6-DC-22), C001808 (6-DC-5)

under T001869, and C001809 (6-DC-12) under T001869.

**93. BAGHOUSE - MDAQMD PERMIT; C001466:**

Serving Truck Cement Loadout at No. 2 Station via 6-SS-69 to 6-LS-2 under permit No. B001872: 6-DC-22 Baghouse, Rees Blowpipe model 480N, A/C ratio 0.4:1, 200 acfm, cloth area 469 sq. ft. 6-FA-21 Blower, 5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**94. UNIT NO. 3 – CEMENT PACKING - MDAQMD PERMIT; B001985:**

| Capacity (hp) | Equipment Name |
|---|---|
| | 6-AS-43 Air Slide |
| | 6-FSV-43 Valve |
| | 6-SS-43 Cement Bin, 25 tons |
| | 6-SS-45 Cement Bin, 25 tons |
| 5.00 | 6-AB-28 Blower |
| | 6-AP-5 Aerator |
| 30.00 | 6-CP-3 Twin Packing Unit No. 3 |
| | 6-FSV-45 Valve |
| | 6-CY-2 Cyclone |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permit C001462 (6-DC-2).

**95. BAGHOUSE - MDAQMD PERMIT; C001462:**

Serving Fabric Dust Collector for Packet Bin 6-SS-43 and 45 under permit No. B001985: 6-DC-2 Baghouse, Sly model 6 x 3685 sq. ft. cloth area, 2,000 acfm, 15 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**96. CEMENT TRUCK LOADOUT, BLOCK CEMENT - MDAQMD PERMIT; B002109:**

| Capacity (hp) | Equipment Name |
|---|---|
| | 6-GA-70 Gate from Bucket Elevator 6-BE-6 |
| | 6-AS-70 Air Slide |
| 75.00 | 6-AC-10 Air Compressor, transfer from Silo 6-SS-32 to Block Storage Silo 6-SS-33 |
| | 6-RV-33 Rotary Valve, air operated |
| 0.50 | 6-LS-8 Loading Spout to Truck |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permit C002111 (6-DC-24).

3. The owner/operator (o/o) shall limit the annual process throughput to 1,489,200 tons per year. Records of monthly and yearly throughput shall be kept.

4. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**97. <u>BAGHOUSE (6-DC-24) - MDAQMD PERMIT; C002111:</u>**

Serving Truck Loadout Station No. 3 under permit No. B002109:
6-DC-24 Baghouse, Mikro Pulsaire Modular, model 1F1, serial No. 71-H-1823, A/C ratio 7.0, 4,000 acfm at 70 degrees F, stack 4.5' dia. X 51'H, 72 8' polypropylene (HCE) bags
6-FA-23, Blower, 15 hp

<u>PERMIT CONDITIONS:</u>

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

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 5 years.

3. This baghouse 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 provided to the District upon request.

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.

5. This baghouse shall discharge no more than 0.34 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf.

6. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

7. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. The o/o shall conduct periodic monitoring per NESHAP Subpart LLL requirements.

**98. SILO - CEMENT STORAGE AND TRANSFER FOR CEMENT TRUCK LOADOUT STATION NO. 3 - MDAQMD PERMIT; T002110:**

For Cement Truck Load out Station NO. 3.

| Capacity (gallons) | Equipment Name |
|---|---|
| 56000.00 | 6-SS-31 Load Vessel |
| 28080.00 | 6-SS-32 Halliburton Pressure Vessel |
| 138667.00 | 6-SS-33 Plastic Storage Silo, 100 tons |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. Silos shall not receive nor unload materials unless each one used is vented to the specific air pollution control equipment that is operating as per valid District permit C002111 (6-DC-24) under B002109.

3. The owner/operator (o/o) shall limit the annual process throughput to 1,489,200 tons per year. Records of monthly and yearly throughput shall be kept.

4. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**99. CEMENT UNLOAD EQUIPMENT - MDAQMD PERMIT; B002089:**

Silo Conglomerate

| Capacity (hp) | Equipment Name |
|---|---|
| 30.00 | 6-AB-1 Air Blower for 6-AS-4,5,9,10,11,12,31,32,33,34,35 |
| 30.00 | 6-AB-2 Air Blower for 6-AS-4,5,9,10,11,12,31,32,33,34,35 |
| 100.00 | 6-AB-3 Air Blower 6-AS-13,14,15,16,36,37 |
| 5.00 | 6-AB-4 Air Blower 6-AS-1,3,5,30 |
| 3.00 | 6-AB-5 Air Blower 6-AS-2 |
| 50.00 | 6-AB-6 Air Blower 6-AS-2 |
| 10.00 | 6-AB-7 Air Blower 6-AS-7 |
| 10.00 | 6-AB-8 Air Blower 6-AS-17 |
| 50.00 | 6-AB-9 Air Blower 6-AS-18 |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001808 (6-DC-5) under T001869 and C001809 (6-DC-12) under T001869.

**100. STORAGE – CEMENT - MDAQMD PERMIT; T001869:**

| Capacity (gallons) | Equipment Name |
|---|---|
| 753600.00 | Silos 1, 2, 3, 4 - Four @ 188,400 gal. ea.; Control: C001808 |
| 173550.00 | Silo 5; Control: C001808 |
| 1318800.00 | Silos 6,7,8,9,10,11,12 - Seven @ 188,400 gal. ea.; Control: C001808 |
| 718500.00 | Silos 13, 14, 15 - Three @ 239,500 gal. ea.; Control: C001809 |
| 224200.00 | Silo 16; Control: C001809 |
| 479000.00 | Silos 17, 18 - Two @ 239,500 gal. ea.; Control: C001809 |
| 244500.00 | Silos A, B, C, D, E - Five @ 48,900 gal. ea.; Control: C001808 |
| 138000.00 | Silos F, G - Two @ 69,000 gal. ea.; Control: C001809 |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. Silos shall not receive nor unload materials unless each one used is vented to the specific air pollution control equipment that is operating as per valid District permit listed above.

**101. BAGHOUSE - MDAQMD PERMIT; C001808:**

Serving Cement Silos 1-12, A-E, mounted atop silos 5 and 7 under permit No. T001869 and equipment under permit Nos. B000991, B001871, B001872, and B002089:
6-DC-5 Baghouse, Carter Day model 232RF8, A/C ratio 7.5:1, 18,000 acfm, cloth area 2400 sq. ft.
6-FA-5 Blower, 30 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**102. BAGHOUSE - MDAQMD PERMIT; C001809:**

Serving Cement Silos 13-18, F and G, mounted atop silo 16 under permit No. T001869 and equipment under permit Nos. B001871, B001872, and B002089:
6-DC-12 Baghouse, Carter Day model 232RF8, A/C ratio 7.5:1, 18,000 acfm, cloth area 5,510 sq. ft.
6-FA-12 Blower, 40 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**103. SOUTH CEMENT LOADOUT - RAIL - MDAQMD PERMIT; B000991:**

| Capacity (hp) | Equipment Name |
|---|---|
| 20.00 | 6-BE-3 Bucket Elevator |
| 30.00 | 6-BE-5 Bucket Elevator |
| 1.50 | 6-AB-22 Air Blower for Slide 5-AS-53 |
| 5.00 | 6-AB-15 Air Blower for Slide 5-AS-52 |
| | 6-LS-7 Loading Sleeve |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001471 (6-DC-20), C001808 (6-DC-5), C009656 (6-DC-27), and under T001869.

**104. BAGHOUSE - MDAQMD PERMIT; C001471:**

Serving Railroad Loadout at Chute 6-LS-7 under permit No. B000991:
6-DC-20 Baghouse, DCL model DC6458212A42LS, A/C ratio 4.28, 2,000 acfm, cloth area 467 sq. ft.
6-FA-20 New York Blower model 194 GILS, 10 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

5. The dust collector shall only be operated during rail loadout operations.

**105. DUST COLLECTOR (6-DC-27) - MDAQMD PERMIT; C009656:**

GE Energy Model ACAV-210799 generating 750 ACFM, air to cloth ratio of 3.29, fan 6-FA-27 (3 hp). This baghouse serves Rail Loadout under permit No. B000991.

PERMIT CONDITIONS:

1. The owner/operator (o/o) shall operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles.

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 retained for a minimum period of five years.

3. The baghouse 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 provided to the District upon request.

4. The o/o shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with these conditions.

5. This baghouse shall operate concurrently with the Rail Loadout, District permit number B000991.

6. This baghouse shall discharge no more than 0.06 lb/hour of PM10 at a maximum concentration of 0.01 gr/dscf.

7. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL – National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry.

8. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

9. The o/o shall conduct periodic opacity monitoring per NESHAP Subpart LLL requirements.

## ***PROCESS: 7 – CEMENT SILOS & BULK LOADING***

**106. SOUTH CEMENT LOADOUT – TRUCK - MDAQMD PERMIT; B000989:**
**Silos 19 and 21 have the following main components:**

| Capacity (bhp) | Equipment Name |
|---|---|
| 150.00 | 6-AC-4 Air Compressor, which is common to 5 silos |
| 20.00 | 6-AB-23 Air Pads, Silos 19 and 21 |
| 15.00 | 6-AB-25 Air to Air Slides, 19 and 21 |
| 5.00 | 6-AB-27 Air to Air Slides, 5 and 3 |
| | 6-SS-47 Cement Bin, 50 ton capacity |
| | 6-LS-3,5 Loadout Sleeves |
| 5.00 | 6-SC-7 Screw Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000990 (6-DC-17); and C000988 (5-DC-5) under T000985.

**107. BAGHOUSE - MDAQMD PERMIT; C000990:**

Serving bulk cement loadout from South silos 19 and 21 under permit No. B000989, and equipment under permit no. B001865:
6-DC-17 Baghouse, Rees Blowpipe model 3-1500-ANS, A/C ratio 2;1, 8,500 acfm, cloth area 4,256 sq. ft.
6-FA-17 Blower, 30 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**108. SILO - SOUTH CEMENT STORAGE - MDAQMD PERMIT; T000985:**

| Capacity (gallons) | Equipment Name |
|---|---|
| 630000.00 | South Silo 19 |
| 630000.00 | South Silo 21 |

PERMIT CONDITIONS:

1. Material shall not be transferred to these silos unless they are vented to air pollution control equipment operating as per valid District permit C000988 (5-DC-5).

**109. BAGHOUSE - MDAQMD PERMIT; C000988:**

Serving and located on top of cement silos 19, 20, 21, 22, H under permit No. T000985, and equipment under permit Nos. T000987, B000989, B001864, and B001865:
5-DC-5 Baghouse, Ecolaire model 500-10, A/C ratio 4.8:1, 24,000 acfm cloth area 5,000 sq. ft.
5-FA-5 Blower, 75 hp
5-SC-5 Screw Conveyor, 2 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**110. NORTH CEMENT LOADOUT – TRUCK - MDAQMD PERMIT; B001864:**
Silos 20 and 22 with the following main components.

| Capacity (hp) | Equipment Name |
|---|---|
| | 6-AC-4 Air Compressor, which is common to B000989 |
| 15.00 | 6-AB-24 Air to Air Pads, Silos 20 and 22 |
| 20.00 | 6-AB-26 Air to Air Slides, 20 and 22 |
| | 6-SS-46 Cement Bin, 50 ton capacity |
| | 6-LS-4,6 Loadout Sleeves |
| 2.00 | 6-SC-6 Screw Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001870 (6-DC-16) and C000988 (5-DC-5) under T000985.

**111. BAGHOUSE - MDAQMD PERMIT; C001870:**

Serving Bulk Cement Loadout from North Silos 20 and 22, under permit No. B001864 and equipment under permit No. B001865:
6-DC-16 Baghouse, Rees Blowpipe model 3-1500-ANS, A/C ratio 2.1:1, 8,500 acfm, cloth area 4,256 sq. ft.
6-FA-16 Blower, 30 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**112. SILO - NORTH CEMENT STORAGE - MDAQMD PERMIT; T000987:**

| Capacity (gallons) | Equipment Name |
|---|---|
| 630700.00 | North Silo 20 |
| 576400.00 | North Silo 22 |
| 147400.00 | No. H Silo |

PERMIT CONDITIONS:

1. Material shall not be transferred to these silos unless they are vented to air pollution control equipment operating as per valid District permit C000988 (5-DC-5) under T000985.

**113. CEMENT LOADOUT TRANSFER - MDAQMD PERMIT; B001865:**

5 Silo System, Nos. 19-22 and H

| Capacity (hp) | Equipment Name |
|---|---|
| | 6-AS-39 Air Slide activated by 6-AB-25 |
| | 6-AS-38 Air Slide activated by 6-AB-26 |
| | 6-AS-56,57 Air Slide activated by 6-AB-27 |
| 125.00 | 6-FK-2 Fuller Cement Pump |
| | (Cement from 19, 20, 21, 22, H can be unloaded and transferred to any of H; 19, 20,21, 22.) |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C000990 (6-DC-17) under B000989, C001870 (6-DC-16) under B001864, C000988 (5-DC-5) under T000985.

**114. SILO - TRUCK LOADOUT - MDAQMD PERMIT; T003235:**

Silos 6-SS-26 and 6-SS-27 are discharged and filled one at a time at approximately 192 ton/h, each served by a dust collector. Each has a capacity of 103 tons of cement with an internal volume of 16,475 gallons.

PERMIT CONDITIONS:

1. All flanges, seals, blowers, and other appurtenant equipment shall be installed and maintained to prevent fugitive emissions.

2. The equipment shall not operate unless the corresponding bin vent dust collector is functioning in conjunction with each silo under valid District permits C003236 and C012293.

3. The owner/operator (o/o) shall limit the annual process throughput to 2,365,200 tons per year. Records of monthly and yearly throughput shall be kept.

4. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**115. BAGHOUSE FOR TYPE III LOADOUT (6-DC-26) - MDAQMD PERMIT; C003236:**

Baghouse (bin vent dust collector) servicing 6-SS-26
Type Bag: Top clamped, single unit
No. of Bags: (36) 6"d x 10'1"

| | |
|---|---|
| Fabric: | Polyester felt |
| Total Bag Area: | 565 sq. ft. |
| Flow Rate: | 2,800 acfm |
| A/C ratio: | 4.96:1 |
| Fan: | 7.5 hp |

PERMIT CONDITIONS:

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

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

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.

4. The o/o shall conduct periodic monitoring per NESHAP Subpart LLL requirements.

5. This baghouse shall operate concurrently with the truck loadout silo 6-SS-26 (District permit No. T003235).
For more information, please refer to Mitsubishi Drawing 6-G-546.

6. This baghouse shall discharge no more than 0.24 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf.

7. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 63 Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

8. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

9. 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 1303]

**115A. DUST COLLECTOR FOR BLOCK CEMENT LOADOUT (6-DC-28) - MDAQMD PERMIT; C012293:**

Dust collection system manufactured by Mikropul, Model 49S-8-20-TRB, with an airflow of 2,550 acfm, cloth area 478 sq. ft., and an air to cloth ratio of 5.34:1. Fan motor rated at 10 hp. Serves the Block Storage Loadout Silo (6-SS-27) of the Truck Loadout under District Permit T003235.

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. The owner/operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District upon request. The record shall be retained for a minimum period of five (5) years.

3. This air pollution control device shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be maintained below 6 inches of water column.

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

5. This air pollution control device shall operate concurrently with the loading of the Type III Storage Loadout Silo (6-SS-27) of the Truck Loadout under District Permit T003235.

6. This air pollution control device shall discharge no more than 0.22 pounds per hour of PM10 at a maximum concentration of 0.01grains/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]

7. This air pollution control device shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity.

8. 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 1303]

9. The owner/operator shall conduct periodic opacity monitoring per 40 CFR 63, Subpart LLL – National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

**116. BAGHOUSE - MDAQMD PERMIT; C001467:**

Serving Truck Vacuum Cleaning Station (no equipment permit No.):
6-DC-23 Baghouse, Hoffman model 2E, A/C ratio 1:1, 500 acfm, cloth area 553 sq. ft. 6-AB-29 Blower, 40 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

5. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 63 Subpart LLL - Portland Cement Manufacturing Facilities.

## *PROCESS: 8 - COAL HANDLING & STORAGE*

### 117. RAILROAD CAR COAL UNLOAD AND STORAGE - MDAQMD PERMIT; B001007:

| Capacity (hp) | Equipment Name |
|---|---|
| 20.00 | 7-CS-1 Car Shaker |
| | 7-SS-1 Surge Hopper, 7.5 tons |
| 10.00 | 7-FE-1 Feeder |
| 7.50 | 7-FA-14 Exhaust Fan |
| 40.00 | 7-BC-1A Belt Conveyor |
| 3.00 | 7-RS-1 Radial Stacker |
| 10.00 | 7-RS-2 Lateral Movement Motor |
| 40.00 | 7-BC-3 Belt Conveyor |
| | Pile Open, 15,000 tons |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment operating under valid District permit C001005 (7-DC-1).

3. Materials processed shall contain sufficient natural or added moisture to ensure compliance with District Rules 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

**118. BAGHOUSE - MDAQMD PERMIT; C001002:**

Serving the top of 7-SS-6 Coal Silo, under Permit No. B001039: 7-DC-9 Baghouse, DCE Vokes model DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq. ft. 7-FA-9 Blower, 7.5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**119. BAGHOUSE - MDAQMD PERMIT; C001005:**

Serving RR Coal Unload and Storage at 7-BC-1A under permit No. B001007: 7-DC-1 Baghouse, DCE Vokes model DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq. ft. 7-FA-1 Blower, 7.5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District

upon request.

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.

**120. COAL RECLAIM SYSTEM - MDAQMD PERMIT; B001039:**

| Capacity (hp) | Equipment Name |
|---|---|
| | 7-SS-2 Hopper, 25 tons |
| 3.00 | 7-FE-2 Feeder |
| 40.00 | 7-BC-4 Belt Conveyor |
| 75.00 | 7-BC-5 Belt Conveyor |
| 40.00 | 7-BC-6 Belt Conveyor |
| 30.00 | 7-BC-7 Belt Conveyor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment operating under valid District permits, C001003 (7-DC-3), C001002 (7-DC-9), C001006 (7-DC-5), and C001343 (7-DC-6).

3. Materials processed shall contain sufficient natural or added moisture to ensure compliance with District Rules 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

**121. BAGHOUSE - MDAQMD PERMIT; C001003:**
Serving Coal Reclaim System at Transfer 7-BC-4 from Front End Loader at coal pile, under permit No. B001039: 7-DC-3 Baghouse, DCE Vokes model DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq. ft. 7-FA-3 Blower, 5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**122. BAGHOUSE - MDAQMD PERMIT; C001006:**

Serving Coal Reclaim System at 7-BC-5 Transfer to 7-BC-6 under permit No. B001039: 7-DC-5 Baghouse, DCE Vokes model DLM-V20F, A/C ratio 3:1, 2,000 acfm, cloth area 680 sq. ft. 7-FA-5 Blower, 7.5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**123. BAGHOUSE - MDAQMD PERMIT; C001343:**

Serving Coal Bin under permit No. B001039 and equipment under Permit No. T002097: 7-DC-6 Baghouse, DCE Vokes model DLM-V20F, A/C ratio 9.5:1, 2,000 acfm 7-FA-6 Blower, 5.5 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse shall be provided with a differential pressure measuring device. The nominal design operational/differential pressure range shall be provided to the District upon request.

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.

**124. SILO-STORAGE - MDAQMD PERMIT; T002097:**

For Reclaim Coal

| Capacity (gallons) | Equipment Name |
|---|---|
| 275000.00 | 7-SS-5 Coal Silo, 900 tons |
| 275000.00 | 7-SS-6 Coal Silo, 900 tons |

PERMIT CONDITIONS:

1. Silo 7-SS-5 shall not be operated for coal entry nor for coal discharge unless it is vented to air pollution control equipment in operation under valid District permit C001343 (7-DC-6) under B001039.

2. Silo 7-SS-6 shall not be operated for coal entry nor for coal discharge unless it is vented to air pollution control equipment in operation under valid District permit C001002 (7-DC-9).

**125. MILL NO. 4 - COAL GRINDING (7-CM-4) - MDAQMD PERMIT; B001868:**

| Capacity (hp) | Equipment Name |
|---|---|
| 1.00 | 7-WF-4 Weigh Feeder |
| 1.00 | 7-CD-4 Drag Conveyor |
| 3.00 | 7-PO-4 Triple Gate Pump |
| 300.00 | 7-CM-4 Coal |
| | 7-CY-8 Cyclone |
| 250.00 | 7-FA-15 Air Fan |
| 2.00 | 7-DA-30 Damper |
| 3.00 | 7-RV-6 Rotary Valve |
| | 7-SS-8 Coal Bin, 13.4 tons |
| 5.00 | 7-SFE-2 Screw Feeder |
| 30.00 | 7-FK-2 Fuller Pump |
| 125.00 | 7-AC-2 Air Compressor |
| 0.50 | 7-DA-27 Control Damper |
| 1.50 | 7-RA-2 Hopper Rake |

| | |
|---|---|
| 10.00 | 7-SC-4 Screw Conveyor |
| 1.50 | 7-RV-12 Rotary Valve |
| 1.50 | 7-RV-14 Rotary Valve |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment operating under valid District permit C001041 (7-DC-8).

3. Materials processed shall contain sufficient natural or added moisture to ensure compliance with District Rules 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

**126. BAGHOUSE - MDAQMD PERMIT; C001041:**

Serving Coal Mill 7-CM-4 via 7-CY-8 carrying coal to 7-SS-8 to feed Kiln Burner, under permit No. B001868 and equipment under permit No. B001986: 7-DC-8 Baghouse, Kaiser Cement Custom Design, model PSP, A/C ratio 4.5:1, 30,000 acfm, cloth area 6,667 sq. ft. 7-FA-16 Blower, 150 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

**127. AUXILIARY COAL TRANSPORT TO KILN - MDAQMD PERMIT; B001986:**

| Capacity | Equipment Name |
|---|---|

| (hp) | |
|---|---|
| | 7-GA-25,26 Gates from Coal Mills |
| | 7-SS-9 Dry Coal Bin, 13.4 tons |
| 5.00 | 7-SFE-3 Dry Screw Feeder |
| | 7-FL-3 Flow Meter |
| 50.00 | 7-FK-3 Fuller Pump |
| 100.00 | 7-AC-3 Air Compressor |
| 100.00 | 7-AC-4 Air Compressor |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment that is operating as per valid District permits C001041 (7-DC-8) under B001868 and C001042 (7-DC-7) under B002784.

## 128. MILL NO. 3 - COAL GRINDING (7-CM-3) - MDAQMD PERMIT; B002784:

| Capacity (hp) | Equipment Name |
|---|---|
| 3.00 | 7-BE-1 Bucket Elevator |
| 4.00 | 7-WF-3 Weigh Feeder |
| 4.00 | 7-PO-3 Two Triple Gate Pumps (1+3) |
| 300.00 | 7-CM-3 Coal Mill |
| 0.50 | 7-DA-11 Damper |
| | 7-CY-7 Cyclone |
| 1.00 | 7-RV-1 Rotary Valve |
| 250.00 | 7-FA-1 Air Fan |
| 2.00 | 7-DA-15 Damper |
| | 7-SS-7 Dry Coal Bin, 13.4 tons |
| 5.00 | 7-SFE-1 Dry Screw Feeder |
| 50.00 | 7-FK-1 Fuller Pump |
| 100.00 | 7-AC-1 Air Compressor |
| 1.50 | 7-RA-1 Hopper Rake |
| 10.00 | 7-SC-1 Screw Conveyor |
| 1.50 | 7-RV-10 Rotary Valve |
| 1.50 | 7-RV-11 Rotary Valve |
| 2.00 | 7-TIM-2 Belt Magnet |
| 150.00 | 7-FA-15 Air Fan |

PERMIT CONDITIONS:

1. Equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall not be operated unless it is vented to air pollution control equipment operating under valid District permits C001042 (7-DC-7).

3. Materials processed shall contain sufficient natural or added moisture to ensure compliance with District Rules 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance.

**129. BAGHOUSE - MDQMD PERMIT; C001042:**

Serving Coal Mill 7-CM-3 via 7-CY-7 carrying coal to 7-SS-7 to feed Kiln Burner, under permit No. B002784, and equipment under permit No. B001986:
7-DC-7 Baghouse, Kaiser Cement Custom Design, model PSP, A/C ratio 4.5:1, 24,000 acfm, cloth area 5,333 sq. ft.
7-FA-13 Blower, 125 hp

PERMIT CONDITIONS:

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

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.

3. This baghouse 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 provided to the District upon request.

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.

## *PROCESS: 9 – MISCELLANOUS EQUIPMENT*

**130. DIESEL IC ENGINE, PORTABLE, LOW-USE COMPRESSOR (871-023) - MDAQMD PERMIT; B003512:**

***(Cancelled)***

**131. DIESEL IC ENGINE, PORTABLE, LOW-USE COMPRESSOR (871-010) -**

**MDAQMD PERMIT; B003513:**
***(Cancelled)***

**132. DIESEL IC ENGINE, PORTABLE, LOW-USE WELDER (725-046) - MDAQMD PERMIT; B009464:**
***(Cancelled)***

**133. DIESEL IC ENGINE, PORTABLE, LOW-USE WELDER (725-047) - MDAQMD PERMIT; B009465:**
***(Cancelled)***

**134. DIESEL IC ENGINE, PORTABLE, LOW-USE GENERATOR (733-001) - MDAQMD PERMIT; B009467:**
***(Cancelled)***

**135. DIESEL IC ENGINE, PORTABLE, LOW-USE AIR COMPRESSOR (871-029) - MDAQMD PERMIT; B009469:**
***(Cancelled)***

**136. DIESEL IC ENGINE, PORTABLE, LOW-USE AIR COMPRESSOR (871-031) - MDAQMD PERMIT; B009470:**
***(Cancelled)***

**137. DIESEL IC ENGINE, PORTABLE, LOW-USE AIR COMPRESSOR (871-032) - MDAQMD PERMIT; B009472:**
***(Cancelled)***

**138. DIESEL IC ENGINE, PORTABLE WELDER (725-051) - MDAQMD PERMIT; B009462:**
Year of Manufacturer 2005, Tier 2, USEPA Family Name 5PKXL04.4RE1. One Perkins, Diesel fired internal combustion engine, Model No. 2466/1700 and serial No. U234372, producing 68 bhp with 4 cylinders at 1725 rpm while consuming a maximum of 4 gal/hr. This equipment powers a Lincoln Welder Model No. SAE-400 and Serial No. L1051000192, rated at 400 amp.

PERMIT CONDITIONS: (to follow)

**139. DIESEL IC ENGINE, PORTABLE WELDER (725-052) - MDAQMD PERMIT;**

**B009929:**
Year of Manufacturer 2006, Tier 2, USEPA Family Name 6PKXL04.4RE1. One Perkins, Diesel fired internal combustion engine, Model No. 2466/1700 and serial No. U323593, producing 51 bhp with 4 cylinders at 1700 rpm while consuming a maximum of 26 lb/hr. This equipment powers a Lincoln Welder Model No. K1278-7 and Serial No. C1061100387, rated at 400 amp.

PERMIT CONDITIONS (B009462 and B009929):

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. 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 (C)(2)(a)]

2. This diesel 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 within this facility or moved to another facility annually. Compliance with this condition is verified by this equipment being permanently mounted on a vehicle that is intended to conduct maintenance and repairs throughout the facility on a routine basis.
[District Rule 1302 (C)(2)(a)]
[Title 17 CCR 93116.2(a)(29)]

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) on a weight per weight basis 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)]
***District and State Applicability only.***

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[District Regulation XIII - NSR]

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) Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
   (b) Fuel sulfur concentration (may use the supplier's certification of sulfur content if it is maintained as part of this log).
[District Regulation XIII - NSR]
[40 CFR 70.6 (a)(3)(B)]

6. The owner/operator may not designate this engine to be low-use or emergency after July 1, 2022.
[Title 17 CCR 93116.3(b)(3)]

In order to designate this engine as low-use or emergency, the owner/operator must submit an application to the District to modify this permit.
***District and State Applicability only.***

7. This USEPA Tier 2 certified engine may not be operated in California on or after January 1, 2023 unless this engine meets one of the following:
(a) The engine has been designated as low-use pursuant to condition 6; or
(b) The engine has been designated as emergency pursuant to condition 6; or
(c) The engine has been equipped with a properly functioning level-3 verified technology.
[Title 17 CCR 93116.3(c)]

"Level-3 Verified Technology" means a technology that has satisfied the requirements of the "Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines" in title 13, Cal. Code Regs., commencing with section 2700, and has demonstrated a reduction in diesel particulate matter of 85 percent or greater. In order to install a level-3 technology, the owner/operator must submit an application to the District to modify this permit.
***District and State Applicability only.***

8. This USEPA Tier 2 certified engine may not be sold, or offered for sale, to an end user in California on or after January 1, 2023. The sale of engines for resale outside of California is not prohibited.
[Title 17 CCR 93116.3(e)]
***District and State Applicability only.***

9. This unit shall not operate within 1000 feet of the outer boundary of any K-12 school. Such operation will require the submittal of an application for a revised permit to operate so that the applicable requirements of the California Health and Safety Code Section 42301.6 will be met.
[California Health and Safety Code, Sections 42301.6 and 42301.9]
***District and State Applicability only.***

10. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Diesel Particulate Matter (DPM) from Portable Engines Rated at 50 Horsepower and Greater (Title 17 CCR 93116).
***District and State Applicability only.***

11. 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]

**140. DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR (871-030) - MDAQMD PERMIT; B009463:**
***(Cancelled)***

**141. DIESEL IC ENGINE, PORTABLE, ~~LOW USE~~ WELDER (725-0~~4953~~) - MDAQMD PERMIT; ~~B009466~~B014326:**
Year of Manufacturer 20~~03~~19, Tier ~~1~~4F, USEPA Family ~~3PKXL04.2AR1~~KDZXL02.9020~~,~~ multi-featured welder/generator/hydraulic pump/compressor ~~DPM rate of 0.2650 g/bhp-hr~~. One ~~Perkins~~Deutz, Diesel fired internal combustion engine, Model No. ~~2049/1700~~TD 2.9 L4 and Serial No. ~~588264~~12469183, Turbo Charged, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, producing ~~71~~65.7 bhp with 4 cylinders at ~~1700~~2200 rpm while consuming a maximum of ~~4~~3.42 gal/hr. This equipment powers a Lincoln Welder Model No. ~~K1278-5~~566x and Serial No. ~~C103120020~~U1200401824, rated at ~~400~~600 amp.

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PERMIT CONDITIONS (~~B009466~~B014326):

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. 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 (C)(2)(a)]

2. This diesel 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 within this facility or moved to another facility annually. Compliance with this condition is verified by this equipment being permanently mounted on a vehicle that is intended to conduct maintenance and repairs throughout the facility on a routine basis.
[District Rule 1302 (C)(2)(a)]
[Title 17 CCR 93116.2(a)(29)]

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) on a weight per weight basis 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.
[District Rule 431; Title 17 CCR 93116.3(a)]
***~~District and State Applicability only.~~***

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

[District Rule 1302 (C)(2)(a)]
[Title 17 CCR 93116.4(b)(2)(A)]

5. ~~This engine has been designated as "low-use" pursuant to Title 17 CCR 93116 and is therefore exempt from the fleet requirements of sections 93116.3(e)(1) and 93116.3(e)(2) pursuant to section 93116.3(e)(3)(C). In order to maintain this designation, this engine may not operate more than 200 hours per calendar year except for in an emergency event as defined in Title 17 CCR 93116.~~

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~~In the event that this engine exceeds the allowed hours of operation in a calendar year it becomes immediately subject to the requirements of section 93116.3(e)(1) or (e)(2) in the year such exceedance or use occurs. The responsible official (owner/operator) must submit a request to convert the engine to regular use, subject to the limitations of section 93116.3(e)(6).~~
~~[Title 17 CCR 93116.2(a)(23) and 9.3116.3(e)(3)and(5)]~~
~~***District and State Applicability only.***~~

~~6.~~ 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) Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,

(b) Fuel sulfur concentration (may use the supplier's certification of sulfur content if it is maintained as part of this log).

[Title 17 CCR 93116.4]
[40 CFR 70.6 (a)(3)(B)]

~~7. This USEPA Tier 1 certified engine may not be sold, or offered for sale, to an end user in California on or after January 1, 2020. The sale of engines for resale outside of California is not prohibited.~~
~~[Title 17 CCR 93116.3(e)]~~
~~***District and State Applicability only.***~~

~~8. The owner/operator of portable, diesel-fired engines that are exempted from the requirements of section 93116.3(e)(1) and 93116.3(e)(2) pursuant to section 93116.3(e)(3)(C) of Title 17 CCR 93116, must keep and maintain records pursuant to condition 7. The Responsible Official (owner/operator) must provide the following compliance report to the District and CARB by March 1 of each calendar year indicating the following:~~
~~(a) The permit number of each low-use engine; and~~
~~(b) The hour meter readings take at the beginning and end of the previous calendar year for each low-use engine.~~

~~Compliance Reports should be sent to the District via mail or electronically to reporting@mdaqmd.ca.gov~~

~~Compliance Reports should be mailed to CARB at:~~
~~ARB/PERP~~
~~P.O. Box 2038~~
~~Sacramento, CA 95812~~
~~[Title 17 CCR 93116.4(b)and(d)]~~
~~***District and State Applicability only.***~~

~~9~~6. This unit shall not operate within 1000 feet of the outer boundary of any K-12 school. Such operation will require the submittal of an application for a revised permit to operate so that the applicable requirements of the California Health and Safety Code Section 42301.6 will be met.
[California Health and Safety Code, Sections 42301.6 and 42301.9]
~~***District and State Applicability only.***~~

~~10~~7. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Diesel Particulate Matter (DPM) from Portable Engines Rated at 50 Horsepower and Greater (Title 17 CCR 93116).
~~***District and State Applicability only.***~~

~~11~~8. 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]

9. This equipment replaces District Permit B009466. Operation of equipment with District Permit B009466 shall cease at this facility within one-hundred and eighty (180) days of startup of this equipment. Owner/operator shall maintain records substantiating compliance with this equipment replacement and provide to District personnel upon request.
[District Rule 1302(D)(5)(a)(i)]

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**141A. DIESEL IC ENGINE, PORTABLE, EMERGENCY/DRP GENERATOR (733-008) - MDAQMD PERMIT; E012736:**
Year of Manufacturer 2016, Tier 4, USEPA Family Name GCEXL06.7AAL. One Cummins, Diesel fired internal combustion engine Model No. QSB7-G9 and Serial No. 5183334, producing 314 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 15.6 gal/hr. This equipment powers a Cummins generator Model No. C200D2RE and Serial No. H160991346, rated at 200 kW.

PERMIT CONDITIONS: (to follow)

**141B. DIESEL IC ENGINE, PORTABLE, EMERGENCY/DRP GENERATOR (733-009) - MDAQMD PERMIT; E012737:**
Year of Manufacturer 2016, Tier 4, USEPA Family Name GCEXL06.7AAL. One

Cummins, Diesel fired internal combustion engine Model No. QSB7-G9 and Serial No. 5182885, producing 314 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 15.6 gal/hr. This equipment powers a Cummins generator Model No. C200D2RE and Serial No. K160991347, rated at 200 kW.

PERMIT CONDITIONS (E012736 and E012737):

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 operating time.
   [District Rule 1302 (C)(2)(a)]
   [Title 17 CCR 93115.10(d)]
   [Tile 40 CFR 60.4214(b)]

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.

   Note: Use of CARB certified ULSD fuel satisfies the requirements of subparagraph 3.b above.
   [17 CCR 93115.5(a)]
   [40 CFR 60.4207(b)]

4. This engine is limited to “emergency use” or “DRP use” only. “Emergency use” is defined as providing electrical power or mechanical work during any of the following events and subject to the following conditions:
   (a) The failure or loss of all or part of normal electrical power service or normal natural gas supply to the facility:
      (i) Which is caused by any reason other than the enforcement of a contractual obligation the owner/operator has with a third party or any other party; and,
      (ii) Which is demonstrated by the owner/operator to the APCO’s satisfaction to have been beyond the reasonable control of the owner operator.
   (b) The failure of a facility’s internal power distribution system:
      (i) Which is caused by any reason other than the enforcement of a contractual obligation the owner/operator has with a third party or any other party;

and,

(ii) Which is demonstrated by the owner/operator to the APCO's satisfaction to have been beyond the reasonable control of the owner operator.

[17 CCR 93115.4(a)(30)]
[Title 40 CFR 60.4219]

"Demand Response Program (DRP) use" is defined as providing electrical power for the purposes of reducing electrical demand using an Interruptible Service Contract (ISC) and meets all of the following requirements:

(a) The Utility Distribution Company has ordered rotating outages in the control area where the engine is located, or has indicated it expects to issue such an order at a specified time, and the dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.; and,

(b) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines; and,

(c) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator; and,

(d) The engine is in a specific location that is subject to the rotating outage in the control area, and the power is provided only to the facility itself or to support the local transmission and distribution system; and,

(e) The engine is operated no more than 30 minutes prior to the time when the Utility Distribution Company officially forecasts a rotating outage in the control area; and,

(f) The engine is terminated immediately after the Utility Distribution Company advises that rotating outage is no longer imminent or in effect.

[District Rule 1302(C)(2)(a)]
[17 CCR 93115.6(c)(1)(B)]
[Title 40 CFR 60.4211(f)(3)(i)]

5. There is no time limit on "emergency use"; however, this engine shall not be operated for more than 100 hours in any calendar year for all other use (DRP use, testing, maintenance, etc.).
[District Rule 1302(C)(2)(iii)]
[Title 40 CFR 60.4243(d)(1) and (f)(3)(i)]

6. This engine and associated equipment may be moved and operated at various locations within this facility, but is not required to be moved as it is subject to, and meets, the requirements of Title 17 CCR 93115 – Airborne Toxic Control Measure for Stationary Compression Ignition Engines and 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

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) Date of each use, reason for each use (emergency use, DRP use, testing, maintenance, etc.), location of each use, and duration of each use (in hours);
   (b) Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
   (c) Documentation to verify compliance with the diesel fuel requirements of condition 3.

   [District Rule 1302 (C)(2)(a)]
   [Title 17 93115.10(f)]
   [40 CFR 70.6 (a)(3)(B)]

8. If this engine operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 60.4211(f)(2)(ii) and (iii) or that operates for the purposes specified as DRP use (§ 60.4211(f)(3)(i)), the owner/operator must submit an annual report containing the following information:
   (a) Company name and address where the engine is located.
   (b) Date of the report and beginning and ending dates of the reporting period.
   (c) Engine site rating and model year.
   (d) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
   (e) Hours operated for the purposes specified in § 60.4211(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in § 60.4211(f)(2)(ii) and (iii).
   (f) Number of hours the engine is contractually obligated to be available for the purposes specified in § 60.4211(f)(2)(ii) and (iii).
   (g) Hours spent for operation for the purposes specified in § 60.4211(f)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in § 60.4211(f)(3)(i).
   (h) The entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

   The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in § 60.4.
   [Title 40 CFR 60.4214(d)]

9. The engine permitted under District permit E012737 must not commence operations until the engine permitted under District permit E008203 is removed from service as the

associated emissions from this engine (E012737) have been simultaneously offset by the removal of the engine permitted under District permit E008203.
[District Rule 1302(C)(2)(iii)]

**142. EMERGENCY GENERATOR – MDAQMD PERMIT; E007911:**
***(Cancelled)***

**143. EMERGENCY GENERATOR – MDAQMD PERMIT; E007913:**
***(Cancelled)***

**144. EMERGENCY GENERATOR – MDAQMD PERMIT; E008201:**
***(Cancelled)***

**145. EMERGENCY GENERATOR – MDAQMD PERMIT; E008202:**
***(Cancelled)***

**146. DIESEL IC ENGINE, EMERGENCY GENERATOR (733-006) – MDAQMD PERMIT; E008203:**
***(Cancelled)***

**147. DIESEL IC ENGINE, EMERGENCY GENERATOR (0-EM-1) – MDAQMD PERMIT; E010297:**
Year of Manufacturer 2008, Tier 2, USEPA Family Name 9CPXL27.OESW, Particulate Trap: Clean Air Systems, 2 Filter, Executive Order DE-05-002. One Caterpillar, Diesel fired internal combustion engine, Model No. C27 and Serial No. MJE01400, Direct Injected, Turbo Charged, producing 1141 bhp with 12 cylinders at 1800 rpm while consuming a maximum of 377 lbs/hr. This equipment powers a Caterpillar Generator Model No. C27 and Serial No. AFR03040, rated at T750 kW.

PERMIT CONDITIONS:

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.

2. 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.

3. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

4. This unit shall be limited to use for emergency power, 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 30 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 30 hour per year limit.

5. The o/o 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);
   (b) Reason for use (testing & maintenance, emergency, required emission testing);
   (c) Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
   (d) Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

6. This genset is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115). In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern.

7. This unit can 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.

8. This unit shall be operated with the Clean Air Systems Particulate Trap , CARB EO# DE-05-002. This device shall be 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.

**147A. <u>DIESEL IC ENGINE, EMERGENCY/DRP GENERATOR (733-003) – MDAQMD PERMIT; E010971:</u>**

DIESEL IC ENGINE, EMERGENCY GENERATOR consisting of 733-003, Model Year 2010, Tier II, Engine Family ACPXL18.1ESW, vented to a CleanAIR Systems Diesel Particulate Trap, Model 1-Permit Filter, Serial Number 85357; CARB EO# DE-05-002-02, One Caterpillar, Diesel fired internal combustion engine, Model No. C18-600KW and Serial No. EST01025, After Cooled, Direct Injected, Turbo Charged, producing 923 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 43 gal/hr. This equipment powers a Caterpillar Generator, Model No. LC7024L and Serial No. G7A03092, rated at 600 kW.

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.

2. Engine may operate in response to notification of impending involuntary 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.

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) on a weight per weight basis per CARB Diesel or equivalent requirements.

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

5. This unit shall be limited to use for emergency power and as part of a Demand Response Program (DRP). Emergency is defined as in response to a fire or when commercially available power has been interrupted. As this engine is equipped with a DPT and emits less than 0.01 g/bhp-hr, it shall be operated no more than 100 hours per year for testing and maintenance, excluding compliance source testing. Use during DRP is not limited.

6. The o/o shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of two (2) 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); designate if used during DRP
   (b) Reason for use (testing & maintenance, emergency, required emission testing);
   (c) Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
   (d) Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

7. This genset is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115). In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern.

8. This unit may 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.

9. This ICE shall not operate unless vented through a properly operating CleanAIR Systems Diesel Particulate Trap, Model 1-Permit Filter, Serial Number 85357; CARB EO# DE-05-002-02.

**148. GASOLINE DISPENSING FACILITITY - MDAQMD PERMIT; N007349:**

Number of Tanks: 3

| | | | |
|---|---|---|---|
| Tank Number: | 1a | 1b | 2 |
| Material Stored: | (87)U | MO | Diesel |
| Volume Gallons: | 6,000 | 6,000 | 20,000 |
| Aboveground(A): | U | U | U |

Dispensing Equipment:
Gasoline Dispensing Nozzles (Number): 1
Diesel Dispensing Nozzles (Number): 2
Phase II Enhanced Vapor Recovery System (Type): Assist [gasoline only]

PERMIT CONDITIONS:

1. The owner/operator shall conspicuously post, in the gasoline dispensing area, the operating instructions and the district's toll-free telephone number for complaints (1-800-635-4617).
[District Rule 461(C)(3)(h)]

2. The owner/operator shall maintain a log of all inspections, repairs, maintenance, and throughput on equipment. Such logs or records shall be maintained at the facility for at least five (5) years and shall be available to the District upon request.
[District Rule 461(E)]

3. Any modifications or changes to the piping or control fittings of the vapor recovery system require prior approval from the District.
[District Regulation XIII]

4. The Enhanced Vapor Recovery (EVR), 2-Point Phase I System shall be tested in accordance with the requirements of Executive Order (EO) VR-102, as stated herein. The owner or operator shall conduct and pass the following tests at least once every twelve (12) months using the latest adopted version of the following test procedures:
(a) TP-201.1B, Static Torque of Rotatable Phase I Adaptors;
(b) TP-201.1C, Leak Rate of Drop Tube/Drain Valve Assembly, or TP-201.1D Leak Rate of Drop Tube Overfill Prevention Devices and Spill Container Drain Valves; and,
(c) TP-201.1E, Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves.

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. [District Rule 461 (C)(1)(c)]

5. The Enhanced Vapor Recovery (EVR), Phase II Vapor Recovery System shall be tested in accordance with the requirements of Executive Order (EO) VR-201, as stated herein. The owner or operator shall conduct and pass the following tests at least once every twelve (12) months using the latest adopted version of the following test procedures:
(a) TP-201.3, Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities (July 26, 2012);
(b) Exhibit 4, Determination of Static Pressure Performance of the Healy Clean Air Separator;
(c) Exhibit 5, Vapor to Liquid Volume Ratio;
(d) Exhibit 7, Nozzle Bag Test; and,
(e) Exhibit 8, Required Items in Conducting TP-201.

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. [District Rule 461 (C)(1)(c)]

6. The annual throughput of gasoline shall not exceed 600,000 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 (HRA) in accord with a District approved plan. In addition a public notice and/or comment period may be required.
[District Rule 461(E) and District Rule 1320]

7. Enhanced Vapor Recovery (EVR), 2-Point Phase I Vapor Control Equipment must be maintained in Compliance with Executive Order (EO) VR-102.
[District Rule 461 (C)(1)(c)]

8. Enhanced Vapor Recovery (EVR), Phase II without ISD Equipment must be maintained in Compliance with Executive Order (EO) VR-201.
[District Rule 461 (C)(1)(c)]

**149.** ***CONDITIONS APPLICABLE TO ALL GASOLINE DISPENSING FACILITIES:***

1. Owner/Operator shall not sale or supply for use within the District as a fuel for motor vehicles as defined by the Vehicle Code of the State of California, gasoline having a degree of unsaturation greater than that indicated by a Bromine Number of 30 as determined by ASTM Method D1159-66.
[District Rule 432]

2. Owner/Operator shall not transfer, permit the transfer or provide equipment for the transfer of gasoline into or from any tank truck, trailer, or railroad tank car into the gasoline storage tank unless the transfer is made to tank equipped as required in Rule 463

or unless all of the following conditions are met:

(a) Tank is equipped with a permanent submerged fill pipe, and

(b) Such delivery vessel or tank is equipped with a vapor recovery system which has been certified by the California Air Resources Board, and the facility's vapor recovery system shall be capable of recovering or processing 95% of the displaced gasoline vapors, and

(c) All vapor return lines are connected between the tank truck, trailer, or railroad tank car and the gasoline tank, and the vapor recovery system is in operation in accordance with the manufacturer's specifications, and the delivery vehicle, including all hoses, fittings, and couplings, is maintained in a vapor-tight condition, as defined by the applicable California Air Resources Board certification and test procedures (Part II, Section B, of Title V Permit), and all equipment is operated and maintained according to the manufacturer's specifications.

(d) Hatch openings are limited to no more than 3 minutes in duration for visual inspection, provided that pumping has been stopped for at least 3 minutes prior to opening, and the hatch is closed fully before pumping is resumed.

(e) All lines are gravity drained, in such a manner that upon disconnect no liquid spillage would be expected; and

(f) Equipment subject to this condition shall be operated and maintained, with no defects, as follows:

(i) All fill tubes are equipped with vapor-tight covers, including gaskets; and

(ii) All dry breaks have vapor-tight seals and are equipped with vapor-tight covers or dust covers; and

(iii) Coaxial fill tubes are operated so there is no obstruction of vapor passage from the storage tank back to the delivery vehicle; and

(iv) The fill tube assembly, including fill tube, fittings and gaskets, is maintained to prevent vapor leakage from any portion of the vapor recovery system; and

(v) All storage tank vapor return pipes without dry breaks are equipped with vapor-tight covers, including gaskets.

[District Rule 461]

3. Owner/Operator shall not transfer, or permit the transfer, or provide equipment for the transfer of gasoline from the gasoline storage tank into any motor vehicle tank of greater than 19 liters (5 gallons) capacity unless:

(a) The dispensing unit used to transfer the gasoline from the gasoline tank to the motor vehicle fuel tank is equipped with a vapor recovery system which has been certified by the California Air Resources Board as capable of recovering 95% of the displaced gasoline vapors; and

(b) The vapor recovery system is operating in accordance with the manufacturer's specifications; and

(c) Equipment is operated and maintained with none of the following defects, pursuant to the definitions in California Administrative Code Section 94006, Subchapter 8, Chapter 1, Part III, of Title 17:

(i) Torn or cut boots;

(ii) Torn or cut face seals or face cones;

(iii) Loose or broken retractors;
(iv) Boots clamped or otherwise held in an open position;
(v) Leaking nozzles;
(vi) Loose, missing, or disconnected nozzle components, including but not limited to boots, face seals, face cones, check valve wires, diaphragm covers and latching devices;
(vii) Defective shutoff mechanisms;
(viii) Loose, missing, or disconnected vapor fuel hoses and associated components including but not limited to flow restrictors, swivels and anti-recirculation valves;
(ix) Crimped, cut, severed, or otherwise damaged vapor or fuel hoses;
(x) Missing, turned off, or otherwise not operating assist type vapor recovery systems, or any components of such systems;
(xi) Improper or non-"CARB certified" equipment or components;
(xii) Inoperative, severely malfunctioning or missing vacuum producing device;
(xiii) Inoperative, loose, missing or disconnected pressure/vacuum relief valves, vapor check valves or dry breaks.

[District Rule 461]

4. Vapor processing or vapor recovery system used by Owner/Operator shall comply with all safety, fire, weights and measures, and other applicable codes and/or regulations.
[District Rule 461]

5. Owner/Operator shall not install any new or rebuilt vapor recovery equipment unless the components and parts clearly identify by markings the certified manufacturing company and/or certified rebuilding company.
[District Rule 461]

6. Vapor recovery system shall be at all times maintained in accordance with the manufacturer's specifications and the State's certification.
[District Rule 461]

7. When problems or defects are detected and are associated with any vapor recovery, storage, delivery vessel or dispensing equipment, other than a breakdown of the central vapor incineration or processing unit, the Owner/Operator shall at the end of the cycle, as defined in Rule 461, remove the equipment from service and not use the equipment until it has been repaired, replaced or adjusted as necessary to remove the problem or defect.
[District Rule 461]

8. Owner/Operator shall not perform or permit the "pump-out" (bulk transfer) of gasoline from the gasoline storage tank unless such bulk transfer is performed using a vapor recovery system capable of returning the displaced vapors from the delivery vessel or other container being filled back to the gasoline storage tank. This vapor recovery is not required where the container is to be removed or filled with water for testing. For visual inspections, the requirements of Part II, Section B, condition B.3.d. are applicable.

[District Rule 461]

9. Owner/Operator shall not store, or allow the storage of, gasoline in the gasoline storage tank unless the tank is equipped with a permanent submerged fill pipe and a certified vapor recovery system.
[District Rule 461]

10. Owner/Operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461 as listed in Part II, Section B conditions. In addition, Owner/Operator shall maintain a leak inspection log containing, at a minimum, the following: inspector's name, location and description of component type where any leak is found; date of leak detection, emission level (ppm) if applicable, and date leak is repaired. Such logs or records shall be maintained at the facility for a minimum of 5 years from the date the records were created and shall be made available to District, state or federal personnel upon request.
[District Rule 461, District Rule 1203(D)(1)(d)(ii)]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

11. Any violation determined by any one of the following listed *Reference Method Tests* shall constitute a violation of applicable Part II and Part III conditions:
    (a) Vapor Recovery System Efficiency for Delivery Vessels shall be determined by the EPA Method entitled, *Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems* (method specified in the CTG EPA-450/2-78-051), or the CARB Method entitled, *Certification and Test Procedures for Vapor Recovery Systems of Gasoline Delivery Tanks*.
    (b) Reid Vapor Pressure shall be determined in accordance with ASTM Method D 323-82.
    (c) Vapor Recovery System Efficiency for Bulk Plants shall be determined by CARB Method 202, "*Certification of Vapor Recovery Systems - Bulk Plants*".
    (d) Vapor Recovery System Efficiency for Terminals shall be determined by CARB Method 203, "*Certification of Vapor Recovery Systems - Gasoline Terminals*".
    (e) Vapor Recovery System Efficiency for Service Stations shall be determined by the CARB Methods in "*Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations*".
    [District Rule 461]
    [40 CFR 70.6 (a)(3)(i)(B)]

12. Compliance with the requirement of the Phase II system to be 95 % effective for the recovery of displaced vapors is considered to be demonstrated by maintaining equipment as specified in the applicable ARB Executive Order certifying the system.
[District Rule 461]
[40 CFR 70.6 (a)(3)(i)(B)]

13. Owner/Operator shall maintain a daily log of product throughput for gasoline dispensing facility.
[District Rule 461]

[40 CFR 70.6 (a)(3)(i)(B)]

14. Owner/Operator shall conspicuously post in the gasoline dispensing area the operating instructions, the District's toll-free telephone number for complaints and a District specified warning sign. Post the following toll-free telephone number: 1-800-635-4617.
[District Rule 461]
[40 CFR 70.6 (a)(3)(i)(B)]

15. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the MDAQMD.
[District Rule 461]
[40 CFR 70.6 (a)(3)(i)(B)]

16. The gasoline dispensing facility shall comply with the following requirements:
    (a) Basic Requirements
        (i) Class B Facility: The Owner/Operator shall not load organic liquids having a true vapor pressure of 77.5 millimeters of mercury (1.5 psia) or greater under actual loading conditions into any tank truck, trailer, or railroad car from a Class B loading facility, unless:
            a. The facility is equipped with a vapor recovery system to prevent the release of fugitive vapor emissions during the filling of organic liquid delivery vehicles.
            b. The facility is equipped with a vapor recovery system to prevent the release of fugitive vapor emissions displaced during the filling of the facility's stationary storage containers with all connections and vapor lines to be maintained vapor tight; and
            c. The facility is equipped with a pressure-vacuum valve on the above ground stationary storage containers with a minimum pressure valve setting of 8 ounces per square inch, provided that such setting will not exceed the container's maximum pressure rating.
    (b) Additional Requirements
        (i) Other agencies requirements - The vapor recovery systems used to comply with the provision of this Rule shall comply with all safety, fire, weights and measures, and other applicable codes and/or regulations, including those listed in the California Health and Safety Code Sections 41950 - 41974.
        (ii) Fugitive Vapor and Liquid Leaks - All of the components of the facility including but not limited to tanks, flanges, seals, pipes, pumps, valves, meters, connectors, shall be maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks and excess organic liquid drainage during transfer, storage and handling operations.
        (iii) Organic Liquid Transport (Tank Truck, Trailer, etc.)
            a. The Owner/Operator shall not allow loading or unloading of organic liquid, or other use or operation of any designated transporting vessel unless the vessel has a valid certification of

vapor integrity as defined by the applicable Air Resources Board Certification and Test Procedures, pursuant to Health and Safety Code Section 41962(9) and the California Administrative Code Title 17, Section 94004.

b. Vapor leaks from dome covers, pressure vacuum vents or other sources shall be determined in accordance with EPA Method 21.

c. The transport equipment shall be operated such that there are no fugitive liquid leaks.

(iv) Switch Loading: Uncontrolled switch loading is prohibited unless:

a. any vapors vented to the atmosphere do not at any point during the transfer exceed 10,000 ppmv, measured as equivalent methane, with a portable hydrocarbon analyzer in accordance with EPA Method 21, or

b. emissions are controlled by a vapor recovery system.

(v) Distribution of Responsibilities

a. The Owner/Operator of an organic liquid loading facility is responsible for complying with the provisions of this rule, and for maintaining the equipment at the facility in such condition that it can comply with the requirements of this rule if properly operated. If employees of the Owner/Operator of the facility supervise or effect the transfer operation, the Owner/Operator of the facility shall be responsible for ensuring that the transfer operation complies with all requirements of this rule and that the transfer equipment is properly operated.

b. The owner, operator, or driver of a tank truck, trailer, or railroad tank car is responsible for complying with Subsections (D)(2) and (D)(3) of this rule.

c. Where appropriate, the Owner/Operator of an organic liquid loading facility and the owner operator, or driver of a tank truck, trailer, or railroad tank car may be separately or jointly found in violation of this rule.

(c) Record Keeping and Reporting

(i) Any facility subject to this rule shall, as a minimum, maintain the following records:

a. The Owner/Operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to this rule. Such logs or records shall be maintained at the facility for at least 5 years and shall be made available to the APCO upon request.

b. The Owner/Operator of a Class A or Class B Facility shall prepare a log showing the daily:

(1) input
(2) output
(3) average stored volume over the 24 hour period (midnight to midnight)
(4) storage and transfer temperatures of the organic liquid
(5) stored product's name and Chemical Abstracts Service

(CAS) number

(6) a monthly summary of the throughput for the calendar year to date.

(ii) Any facility classified as exempt or claiming to be exempt shall meet the same record keeping requirements of this rule so as to be able to prove the exemption status.

(d) Test Methods for Compliance Verification

(i) A violation determined by any one of these test methods shall constitute a violation of the rule.

a. Vapor Tightness (Fugitive Vapor Leaks) for all equipment described in this rule, unless otherwise specified, shall be determined by EPA Method 21 - Determination of Volatile Organic Compounds Leaks.

b. Vapor Recovery System Efficiency for Delivery Vessels shall be determined by the EPA Method entitled Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems (method specified in the CTG EPA-450/2-78-051), or the CARB Method entitled, "Certification and Test Procedures for Vapor Recovery Systems of Gasoline Delivery Tanks".

c. Reid Vapor Pressure shall be determined in accordance with ASTM Method D 323-82, and the true vapor pressure in psi absolute of stored liquid shall be determined by using the nomograph contained in American Petroleum Institute Bulletin 2517 for conversion of Reid vapor pressure to true vapor pressure.

d. Vapor Recovery System Efficiency for Bulk Plants shall be determined by CARB Method 202, "Certification of Vapor Recovery Systems – Bulk Plants".

e. Vapor Recovery System Efficiency for Terminals shall be determined by CARB Method 203, "Certification of Vapor Recovery Systems – Gasoline Terminals".

f. Vapor Recovery System Efficiency for Service Stations shall be determined by the CARB Methods in "Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations".

[District Rule 462]

17. The gasoline dispensing facility shall comply with the following requirements:

(a) Basic Requirements

(i) Tanks With 150,000 Liters Or Less Capacity: The Owner/Operator shall not place, store or hold in any above-ground stationary tank, or other container of 150,000 liters (39,630) or less capacity any organic liquid having a true vapor pressure of 77.5 mm Hg (1.5 psia) or greater under actual storage conditions, unless such tank is equipped with a pressure-vacuum valve which is set to within ten percent of the maximum allowable working pressure of the container, or is equipped with a vapor

loss control device described as follows. A fixed roof tank with a vapor recovery system consisting of a system capable of collecting all organic vapors and gases, and a vapor return or disposal system capable of processing such vapors and gases, so as to prevent their emission to the atmosphere at an efficiency of at least 95 percent by weight.

(ii) Additional Requirements

a. All of the components of a facility including but not limited to tanks, flanges, seals, pipes, pumps, valves, meters, connectors, shall be maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks, and excess organic liquid drainage during transfer, storage and handling operations.

b. Efficiency, as used in Subsections (C)(1)(c) and (C)(1)(d) of District Rule 463 means a comparison of controlled emissions to those emissions which would occur from a fixed or cone roof tank in the same product service without a vapor control system. Base line emissions shall be calculated by using the criteria outlined in American Petroleum Institute Bulletin 2518.

c. The roof of any internal or external floating roof tank is to be floating on the liquid at all times (i.e. free of the roof leg supports) except when the tank is being completely emptied for cleaning, or repair. The process of emptying, and/or refilling, when the roof is resting on the leg supports, shall be continuous and shall be accomplished as rapidly as possible, and: If the tank has been gas-freed and is to be refilled with gasoline, the roof shall be refloated with water, or equivalent procedure approved by the APCO.

(b) Record Keeping and Recording

(i) The Owner/Operator whose tanks are subject to this rule shall keep an accurate record of liquids stored in such containers and the true vapor pressure ranges of such liquids, or other criteria approved by the APCO.

(ii) Organic liquids listed on the addendum to this rule shall be deemed to be in compliance with the appropriate vapor pressure limits for the tank in which it is stored provided the actual storage temperature does not exceed the corresponding maximum temperature listed.

(iii) The Owner/Operator shall maintain a log of all inspections, repairs and maintenance on equipment subject to this rule. Such a log or records shall be maintained at the facility for at least 5 years and shall be made available to the APCO upon request.

(c) Compliance Verification Test Methods

(i) Vapor Pressure shall be determined in accordance with ASTM Method D 323-82, or the unmodified Reid Method and the true vapor pressure in psi absolute of stored liquid shall be determined by using the nomographs contained in American Petroleum Institute Bulletin 2517 for conversion of Reid vapor pressure to true vapor pressure.

(ii) Vapor Tightness (Fugitive Vapor Leaks) for all equipment described in Section (C) shall be determined by EPA Method 21 - Determination of Volatile Organic Compounds Leaks.

(iii) Vapor Tightness for delivery vessels shall be determined by the EPA Method entitled Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems (method specified in the CTG EPA-450/2-78-051), or the CARB Method entitled, "Certification and Test Procedures for Vapor Recovery Systems of Gasoline Delivery Tanks".

(iv) Vapor Tightness for bulk plants shall be determined by CARB Method 202, "Certification of Vapor Recovery Systems - Bulk Plants".

(v) Vapor Tightness terminals shall be determined by CARB Method 203, "Certification of Vapor Recovery Systems - Gasoline Terminals".

(vi) Vapor Tightness for service stations shall be determined by the CARB Methods in "Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations".

[District Rule 463]

**149A. STORAGE TANK FOR WASTE OIL – MDAQMD PERMIT; T005181:**

One Enviro-Vault, by Bakersfield Tank Co. This tank has a capacity of 1000 gallons and is of dual wall, above ground construction.

PERMIT CONDITIONS:

1. The owner/operator, o/o, shall log the throughput of waste oil and its disposition. The log shall be maintained current, on-site for a minimum of 5 years and provided to District personnel on request.

2. No hazardous materials nor spent fuel of any type shall be stored in this tank.

## *PROCESS: 10 – SAND PLANT*

**150. SAND PLANT – CRUSHING AND SCREENING PLANT PRODUCING SAND, GRIT, AND SMALL (3/4" MINUS) AGGREGATE THAT SUPPORTS LOADOUT SILOS 1-SS-2 AND 1-SS-3 - MDAQMD PERMIT; B003948:**

| Capacity (hp) | Equipment Name |
|---|---|
| 250.00 | Electric Air Compressor (1-AC-1) |
| 10.00 | Conveyer 42" x 10'10" - Feeder under Grizzly (1-BC-1) |
| 10.00 | Conveyer 36" x 48' - Surge bin feed conveyer (1-BC-10) |
| 10.00 | Conveyer 36" x 78' - Sand radial conveyer (1-BC-11) |
| 5.00 | Conveyer 29" x 17' - Bottom deck cross conveyer (1-BC-12) |
| 10.00 | Conveyer 30" x 80' - Grit stacker conveyer (1-BC-13) |
| 7.5 | Conveyer 29" x 26' - Middle deck cross conveyer (1-BC-14) |
| 10.00 | Conveyer 30" x 60' - 3/4" lock stacker conveyer (1-BC-15) |
| 5.00 | Conveyer 30" x 12' - Top deck cross conveyer (1-BC-16) |
| 20.00 | Conveyer 36" x 85' - VSI crusher feed conveyer (1-BC-17) |

| | |
|---|---|
| 25.00 | Conveyer 36" x 97' - VSI crusher return conveyer (1-BC-18) |
| 5.00 | Conveyer 36" x 20' - Waste feeder conveyer (1-BC1A) |
| 7.5 | Conveyer 30" x 24' - Rock feeder conveyer (1-BC1B) |
| 15.00 | Conveyer 24" x 62' - Grizzly feeder conveyer (1-BC1C) |
| 15.00 | Conveyer 42" x 115' - Feeder conveyer to 5x16 JCI screen (1-BC-2) |
| 10.00 | Conveyer 30" x 9' - Sand feeder conveyer (1-BC-23) |
| 25.00 | Conveyer 36" x 60' - Sand feeder conveyer (1-BC-24) |
| 25.00 | Conveyer 32" x 89' - Sand feeder conveyer (1-BC-25) |
| 3.00 | Conveyer 24" x 15' - Grit spout conveyer (1-BC-26) |
| 3.00 | Conveyer ?" x ?' - Palletizer conveyer (1-RS-1) |
| 5.00 | Conveyer 46" x 16' - 5x16 underscreen -6 mesh waste (1-BC-3) |
| 5.00 | Conveyer 30" x 20' - Minus 6 mesh stacking conveyer (1-BC-4) |
| 40.00 | Conveyer 36" x 86' -Rejects conveyer (1-BC-4A) |
| 10.00 | Conveyer 36" x 28' - minus 2.5 x +6 mesh from 5x16 screen (1-BC-5) |
| 10.00 | Conveyer 36" x 28' - Bearclaw crusher minus 2.5 discharge (1-BC-6) |
| 10.00 | Conveyer 60" x 36' - Picker belt (1-BC-7) |
| 15.00 | Conveyer 36" x 88' - Feed conveyer to JCI screen (1-BC-8) |
| 15.00 | Conveyer 60"x 27' - Underscreen conveyer (1-BC-9) |
| 30.00 | Elevator 1-BE-1 |
| 100.00 | Bearclaw primary crusher (1-CR-1) |
| 60.00 | Thunderbird Jaw Crusher (1-CR-1A) |
| 500.00 | Remco Sandmax VSI crusher (1-CR-2) |
| 20.00 | 1-HU-1A |
| 1.50 | Sand pile loading spout (1-LS-1) |
| 1.50 | Grit pile loading spout (1-LS-2) |
| 1.50 | Rock pile loading spout (1-LS-3) |
| 2.00 | Radial Drive (1-RS-1) |
| 2.00 | Radial Drive (1-RS-2) |
| 50.00 | Primary 3 Deck 5x16 vibrating screen (1-VS-1) |
| 5.00 | Vibrating screen (1-VS-1A) |
| 75.00 | Finish 3 deck 8x20 vibrating screen (1-VS-2) |

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to properly functioning air pollution control equipment covered by valid District permits C003949, C008145, C008146, C008147, C008148, C008149, C008150, and C008151.

2. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and/or specifications which ensures compliance with District Rules.

3. The o/o shall maintain a log of all inspections, repairs, and maintenance on this equipment. The log shall be kept on-site for a minimum period of five years and provided to District personnel on request.

4. The o/o shall limit sand production to a maximum of 200 tons per hour.

5. The owner/operator (o/o) shall limit the annual sand production to 1,200,000 tons per year. Records of monthly and yearly throughput shall be kept.

6. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

7. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than the following opacity:
   a. Stack emissions - seven percent (40 CFR 60.672(a))
   b. All transfer points and fugitive emission points - ten percent (40 CFR 60.672(b))

8. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or Equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (Transfer point or other) associated with this equipment.

9. The o/o will periodically monitor opacity from fugitive emission points according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

~~**151. WHITE SAND SILOS & BAGGING STATION – MDAQMD PERMIT; T004299:**~~

~~Two white sand silos (1-SS-2 and 1-SS-3), each designed to hold 54 tons, whose dimensions are 11 feet in diameter by 30.5 feet high (including the 5.5 feet of taper), with a total capacity of 25,330 gallons. A bagging station is under 1-SS-3 silo.~~

~~PERMIT CONDITIONS:~~

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1. These silos shall not be filled with any material unless vented to functioning baghouses under valid District permit numbers C003949 (1-DC-1), C004289 (1-DC-2) and C004290 (1-DC-3).

2. The owner/operator (o/o) shall limit the annual process throughput to 1,200,000 tons per year. Records of monthly and yearly throughput shall be kept.

3. This equipment shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

4. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than the following opacity:
   (a) Stack emissions - seven percent (40 CFR 60.672(a))
   (b) All transfer points and fugitive emission points - ten percent (40 CFR 60.672(b))

5. The o/o will periodically monitor opacity from fugitive emission points according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

**152. BAGHOUSE FOR SAND PLANT (1-DC-1) - MDAQMD PERMIT; C003949:**
A Flex Clean baghouse, model 100WSBC81 IIIG, Serial #300659,equipped with 81 bags (1029 square feet) and a 15 hp fan generating 5000 ACFM (for an air to cloth ratio of 4.86:1). This unit provides exhaust air filtration to the Sand Plant (B003948).

PERMIT CONDITIONS:

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.

2. The o/o shall log all the items required below and keep the log on-site for a minimum of

five years and present it to District personnel on request.

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.

4. The o/o shall install and maintain a device which measures the pressure differential across the bags if one is not provided with the unit.

5. This baghouse shall operate concurrently with the equipment described in District permit T004299.

6. This baghouse shall discharge no more than 0.43 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf at the operating conditions given in the above description.

7. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

8. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

9. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

10. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

**153. BAGHOUSE FOR SAND PLANT (1-DC-2) - MDAQMD PERMIT; C004289:**
Baghouses each of which contains 16 bags whose dimensions are 6" dia. X 84"L. The

bags are polyester serviced by a 3 hp motor which moves 700 ft3/min. and the total filtration area for each baghouse is 176 ft2.

PERMIT CONDITIONS:

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/or sound engineering principles.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

3. The o/o shall log all the items in 2. Above, keep the log current, on-site for a minimum of five years and provide it to District personnel on request.

4. The o/o shall maintain an inventory of the required bags for replacement on-site at all times which will ensure compliance with District Rules.

5. This baghouse shall operate concurrently with equipment described in District permit No. T004299.

6. This baghouse shall discharge no more than 0.06 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf.

7. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

8. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

9. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

10. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.

**154. BAGHOUSE FOR SAND PLANT (1-DC-3) – MDAQMD PERMIT; C004290:**

Baghouses consisting of 16 bags whose dimensions are 6" dia. X 84"L. The bags are polyester serviced by a 3 hp motor which moves 700 $ft^3$/min. and the total filtration area for each baghouse is 176 ft2.

PERMIT CONDITIONS:

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/or sound engineering principles.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

3. The o/o shall log all the items in 2, above, keep the log current, on-site for a minimum of five years and provide it to District personnel on request.

4. The o/o shall maintain an inventory of the required bags for replacement on-site at all times which will ensure compliance with District Rules.

5. This baghouse shall operate concurrently with equipment described in District permit No. T004299.

~~6. This baghouse shall discharge no more than 0.06 pounds per hour of PM10 at a maximum concentration of 0.01 gr/dscf.~~

~~7. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.~~

~~8. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants.~~

~~9. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).~~

~~10. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.~~

**155. <u>DUST COLLECTOR FOR SAND PLANT (1-DC-4) – MDAQMD PERMIT; C008145:</u>**

Mikropul Model 815-8-20-TR C style baghouse with top bag removal and mikro-pulsaire cleaning, equipped with an 8" double tipping valve, 81 4 5/8" x 8' bags (806 sq ft) and fan 1-FA-4 (20 hp) generating 4500 ACFM (air to cloth ratio of 5.6:1). This baghouse vents screen 1-VS-1 feed, reject drop from the screen, and reject transfer belts to the screen reject pile. See diagram 1-F-505.

<u>PERMIT CONDITIONS:</u>

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.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

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.

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.

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.

6. This baghouse shall operate concurrently with the Sand Plant under valid District permit number B003948.

7. This baghouse shall discharge no more than 0.386 lb/hour at a maximum concentration of 0.01 gr/dscf at the operating conditions described in the above description.

8. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 7 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.

9. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

10. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

11. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

12. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.

**156. <u>DUST COLLECTOR FOR SAND PLANT (1-DC-5) – MDAQMD PERMIT;</u>**

**C008146:**

Mikropul Model 144S-8-20-TR C style baghouse, equipped with an 8" double tipping valve, 144 4 5/8" x 8' bags (1433 sq ft) and fan 1-FA-5 (30 hp) generating 8600 ACFM (air to cloth ratio of 6:1). This baghouse vents screen 1-VS-1, crusher 1-CR-1, screen discharge, crusher discharge, and drops to the picker belt. See diagram 1-F-505.

PERMIT CONDITIONS:

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.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

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.

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.

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.

6. This baghouse shall operate concurrently with the Sand Plant under valid District permit number B003948.

7. This baghouse shall discharge no more than 0.737 lb/hour at a maximum concentration of 0.01 gr/dscf at the operating conditions described in the above description.

8. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 7 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.

9. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

10. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

11. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

12. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.

**157. DUST COLLECTOR FOR SAND PLANT (1-DC-6) – MDAQMD PERMIT; C008147:**

Mikropul Model 196S-8-20-TR C style baghouse, equipped with an 8" double tipping valve, 196 4 5/8" x 8' bags (1950 sq ft) and fan 1-FA-6 (40 hp) generating 11000 ACFM (air to cloth ratio of 5.6:1). This baghouse vents feed to screen 1-VS-2, the screen, all screen discharge, surge bin 1-SS-6, and surge bin discharge to pivot belt conveyor 1-BC-11. See diagram 1-F-505.

PERMIT CONDITIONS:

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.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.

(c) 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.

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.

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.

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.

6. This baghouse shall operate concurrently with the Sand Plant under valid District permit number B003948.

7. This baghouse shall discharge no more than 0.943 lb/hour at a maximum concentration of 0.01 gr/dscf at the operating conditions described in the above description.

8. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 7 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.

9. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

10. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

11. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

12. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.

**158. DUST COLLECTOR FOR SAND PLANT (1-DC-7) – MDAQMD PERMIT; C008148:**

Bayshore Model EL-300DC baghouse, equipped with a loading spout, 8 6" x 36" bags (260 sq ft) and fan 1-FA-7 (1.5 hp) generating 960 ACFM (air to cloth ratio of 3.7:1). This baghouse vents the drop end of rotary belt conveyor 1-BC-11, feed to the sand pile. See diagram 1-F-505.

PERMIT CONDITIONS:

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.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

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.

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.

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.

6. This baghouse shall operate concurrently with the Sand Plant under valid District permit number B003948.

7. This baghouse shall discharge no more than 0.082 lb/hour at a maximum concentration of 0.01 gr/dscf at the operating conditions described in the above description.

8. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 7 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.

9. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

10. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

11. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

12. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.

**159. DUST COLLECTOR FOR SAND PLANT (1-DC-8) – MDAQMD PERMIT; C008149:**

Midwest Model 200 baghouse with loading spout, equipped with bags to be specified and fan 1-FA-8 (2 hp) generating 760 ACFM (unknown air to cloth ratio). This baghouse vents the drop from belt conveyor 1-BC-13 onto the grit pile. See diagram 1-F-505.

PERMIT CONDITIONS:

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.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.

(c) 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.

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.

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.

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.

6. This baghouse shall operate concurrently with the Sand Plant under valid District permit number B003948.

7. This baghouse shall discharge no more than 0.065 lb/hour at a maximum concentration of 0.01 gr/dscf at the operating conditions described in the above description.

8. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 7 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.

9. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

10. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

11. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

12. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point

(transfer point or other) associated with this equipment.

**160. <u>DUST COLLECTOR FOR SAND PLANT (1-DC-9) – MDAQMD PERMIT; C008150:</u>**

Midwest Model 200 baghouse with loading spout, equipped with bags to be specified and fan 1-FA-9 (2 hp) generating 760 ACFM (air to cloth ratio to be specified). This baghouse vents the drop from belt conveyor 1-BC-15 onto the 3/4"- pile. See diagram 1-F-505.

<u>PERMIT CONDITIONS:</u>

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.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

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.

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.

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.

6. This baghouse shall operate concurrently with the Sand Plant under valid District permit number B003948.

7. This baghouse shall discharge no more than 0.065 lb/hour at a maximum concentration of 0.01 gr/dscf at the operating conditions described in the above description.

8. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 7 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.

9. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

10. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

11. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

12. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.

**161. <u>DUST COLLECTOR FOR SAND PLANT (1-DC-10) - MDAQMD PERMIT; C008151:</u>**

Mikropul Model 81S-8-20-TR C style baghouse, equipped with an 8" double tipping valve, 81 4 5/8" x 8' bags (806 sq ft) and fan 1-FA-10 (20 hp) generating 4500 ACFM (air to cloth ratio of 5.6:1). This baghouse vents crusher 1-CR-2 feed and crusher discharge to belt conveyor 1-BC-18. See diagram 1-F-505.

<u>PERMIT CONDITIONS:</u>

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.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.

(c) 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.

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.

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.

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.

6. This baghouse shall operate concurrently with the Sand Plant under valid District permit number B003948.

7. This baghouse shall discharge no more than 0.386 lb/hour at a maximum concentration of 0.01 gr/dscf at the operating conditions described in the above description.

8. Within 180 days from the initial start-up of this unit, the o/o shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 7 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 45 days subsequent to the final day of on-site sampling and measurement.

9. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

10. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

11. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

12. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements,

including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.

**162. DUST COLLECTOR FOR SAND PLANT (1-DC-11) – MDAQMD PERMIT; C009581:**

Midwest Model 200 baghouse with loading spout, equipped with bags to be specified and fan 1-FA-11 (2 hp) generating 760 ACFM (unknown air to cloth ratio). This baghouse vents the drop from belt conveyor 1-BC-4A onto the rejects pile.

PERMIT CONDITIONS:

1. The owner/operator (o/o) shall install, operate and maintain this dust collector according to the recommendations of the manufacturer/supplier, and sound engineering principles.

2. The o/o will periodically monitor opacity from stack exhaust according to the following methodology:
   (a) The owner or operator must conduct a monthly 1-minute visible emissions test of each affected source in accordance with USEPA Method 22. The test must be conducted while the affected source is in operation.
   (b) 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.
   (c) 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.

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.

4. The o/o shall install and maintain a device which measures the pressure differential across the bags.

5. This baghouse shall discharge no more than 0.065 lb/hour at a maximum concentration of 0.01 gr/dscf.

6. The owner/operator (o/o) shall limit the annual operating hours of this baghouse to 6,000 hours per year. Records of monthly and yearly hours of operation shall be kept.

7. This baghouse shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

8. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity (40 CFR 60.672(a)(2)).

9. The o/o shall conduct an initial compliance test per NSPS Subpart OOO requirements, including PM (USEPA Method 5 or equivalent) and/or opacity (USEPA Method 9 or equivalent) testing as applicable for each baghouse, bin vent and fugitive emission point (transfer point or other) associated with this equipment.

# 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.
[District Rule 1203(D)(1)(f)(i)]
[40 CFR 70.6(a)(5)]

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.
[District Rule 1203(D)(1)(f)(ii)]
[40 CFR 70.6(a)(6)(i)]

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).
[District Rule 1203(D)(1)(f)(iii)]
[40 CFR 70.6(a)(6)(ii)]

4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[District Rule 1203(D)(1)(f)(iv)]
[40 CFR 70.6(a)(6)(iii)]

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 any condition contained in this Federal Operating Permit.
[District Rule 1203(D)(1)(f)(v)]
[40 CFR 70.6(a)(6)(iii)]

6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[District Rule 1203(D)(1)(f)(vi)]
[40 CFR 70.6(a)(6)(iv)]

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.
[District Rule 1203(D)(1)(f)(vii)]
[40 CFR 70.6(a)(6)(v)]

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.
[District Rule 1203(D)(1)(f)(viii)]
[40 CFR 70.6(a)(6)(v)]

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.
[District Rule 1203(D)(1)(d)(ii)]
[40 CFR 70.6(a)(3)(ii)(B)]

10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in District Rules 301 and 312.
[District Rule 1203(D)(1)(f)(ix)]
[40 CFR 70.6(a)(7)]

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.
[District Rule 1203(D)(1)(f)(x)]
[40 CFR 70.6(a)(8)]

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).
[District Rule 1203(G)(1)]
[40 CFR 70.6(f)(1)(i)]

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.
[District Rule 1203(G)(3)(a)]
[40 CFR 70.6(f)(3)(i)]

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.
[District Rule 1203(G)(3)(b)]
[40 CFR 70.6(f)(3)(ii)]

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.
[District Rule 1203(G)(3)(c)]
[40 CFR 70.6(f)(3)(iii)]

16. The Permit Shield set forth in Part VI, as discussed in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to Health and Safety Code Sections 42303 or 42705, or 42 U.S.C. §7414 or any other applicable provision of the State or Federal law.
[District Rule 1203(G)(3)(d)]
[40 CFR 70.6(f)(3)(iv)]

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.
[District Rule 1203(G)(3)(e)]
[40 CFR 70.4(b)(12)(ii)(B)]

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.
[District Rule 1203(G)(3)(f)]
[40 CFR 70.4(b)(14)(iii)]

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.
[District Rule 1203 (G)(3)(g)]
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi)]

20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart F]

21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart B]

22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.
[Section 113(a) of the Clean Air Act]

# PART V
# OPERATIONAL FLEXIBILITY

## A. ALTERNATIVE OPERATING SCENARIO(S):

Owner/operator individual State/District Permits are already conditioned to allow owner/operator-wide emissions cap and internal netting. Further, the conditions of these State/District level permits are listed within Part III of this Title V Permit. This owner/operator State/District emissions cap is federally enforceable under the conditions of this Title V Permit.

Owner/operator must comply with these already listed conditions and keep records required for a period of five (5) years from the date the data is generated, and made available to District, State or federal personnel on request.

## B. OFF PERMIT CHANGES:

1. 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 District Rule 219; and
      (i) The proposed change is not:
         a. Subject to any requirements under Title IV of the Federal Clean Air Act; or *[See District Rule 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 District Rule 1203(E)(1)(c)(i) d.]*
         d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See District Rule 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 District Rule 1203(E)(1)(c)(i)e.]*

2. 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:
      (i) Permittee shall apply for an Authority To Construct permit pursuant to the provisions of District Regulation II. *[See District Rule 1203(E)(1)(c)(i)b.]*
      (ii) 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 District*

*Rule 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 District Rule 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 District Rule 1203(E)(1)(c)(i)c.]*

(iii) Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See District Rule 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 District Rule 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 District Rule 1203(E)(1)(c)(i)f.]*

3. Other Requirements:

(a) The provisions of District Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.

(b) The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. *[See 40 CFR 70.4(b)(i)(B)]* [District Rule 1203(E)(1)(c)]

# PART VI
# PERMIT SHIELD

Non-Applicable Requirements for Mitsubishi Cement Corporation Cushenbury Plant

| Citation | Description | Explanation of Why Requirement is Not Applicable or How Requirement is Modified |
|---|---|---|
| 40CFR60 Subpart OOO | New Source Performance Standards for Nonmetallic Mineral Processing | This requirement is not applicable to the primary and secondary limestone crushing system (B001009 and associated control devices), which was constructed prior to the NSPS Subpart OOO applicability cutoff date of August 31, 1983, and is not subject to NSPS Subpart OOO. |
| 40CFR63 Subpart EEE | NESHAP from Hazardous Waste Combustors | Per Part III.36, condition #6 of the CLINKER PYRO PROCESSING KILN (B001025), MCC is not using any materials that are classified as hazardous waste as specified in 40CFR261; therefore, MCC is not subject to 40CFR63, Subpart EEE. |
| 40CFR60 Subpart DDDD and 40CFR241 | Commercial/Industrial Solid Waste Incinerator (CSIWI) Rule and Non-Hazardous Secondary Materials (NHSM) | Per Part III.36, condition #6 of the CLINKER PYRO PROCESSING KILN (B001025), MCC is not using any materials that are classified as wastes under 40CFR241 (NHSM); therefore, MCC is not subject to 40CFR60, Subpart DDDD (CISWI). |
| 40CFR82 | Stratospheric Ozone | MCC has no refrigeration units over 50 lbs of refrigerant and; therefore, is not subject to 40CFR82 requirements for refrigeration units over 50 lbs of refrigerant. |
| 40CFR63 Subpart ZZZZ | NESHAP for Stationary Reciprocating IC Engines (RICE) | MCC units E012736 and E012737 are not classified as emergency generators under 40CFR63 Subpart ZZZZ and 40CFR60 Subpart IIII and are not subject to the operating restrictions to meet the definition of emergency generator under these rules. Instead, these units are subject to the non-emergency engine requirements in these rules, specific to the engine type (new diesel engine) and engine size (<500 HP), as listed in the Title V permit. |

# PART VII
# CONVENTIONS, ABREVIATIONS, DEFINITIONS

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

40CFR60, Standards of Performance for New Stationary Sources (NSPS)
40CFR60, Appendix F, Quality Assurance Procedures
40CFR61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40CFR61, Subpart M, National Emission Standards for Asbestos
40CFR72, Permits Regulation (Acid Rain Program)
40CFR73, Sulfur Dioxide Allowance System
40CFR75, Continuous Emission Monitoring
40CFR75, Subpart D, Missing Data Substitution Procedures
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures
40CFR75, Appendix C, Missing Data Estimating Procedures
40CFR75, Appendix D, Optional $SO_2$ Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of $CO_2$ Emissions

**B. Other conventions**:

1. Unless otherwise noted, a "day" shall be considered a 24 hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

**C. Abbreviations used in this permit are as follows:**

| | |
|---|---|
| CFR | Code of Federal Regulations |
| APCO | Air Pollution Control Officer |
| bhp | brake horse power |
| Btu | British thermal units |
| CCR | California Code of Regulations |
| CEMS | continuous emissions monitoring system |
| CO | carbon monoxide |
| CO2 | carbon dioxide |
| Dia. | diameter |
| 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 |
| SO2 | sulfur dioxide |
| tpy | tons per year |
| TVP | true vapor pressure |

# APPENDIX A

## Emission Unit List and Applicable Requirement Categories

## Emission Unit List and Applicable Requirement Categories

| | | | | *Requirement Categories* | |
|---|---|---|---|---|---|
| **Permit #** | **Permit Description** | **MCC Equipment #** | **Title V #** | **Appendix B Category** | **Appendix C Category** |
| B000975 | Gypsum Unloading to Storage | - | 60 | Section B5 | N/A |
| B000983 | Clinker Transfer and Storage | - | 41 | Section B2 | Sections C6,C7,C8,C9 |
| B000989 | South Cement Loadout | - | 106 | Section B2 | Sections C6,C7,C8,C9 |
| B000991 | Rail Cement Loadout | - | 103 | Section B2 | Sections C6,C7,C8,C9 |
| B000993 | Cement Packing Unit No.1 | - | 86 | Section B2 | Sections C6,C7,C8,C9 |
| B001007 | Rail Coal Unload & Storage | - | 117 | Section B3 | Section C1 |
| B001009 | Primary and Secondary Crushing | - | 1 | Section B5 | N/A |
| B001010 | Clay Delivery, Crushing System | - | 15 | Section B5 | N/A |
| B001011 | Crushing, Stockpiling, and Pre-Blender | - | 3 | Section B5 | N/A |
| B001012 | Raw Additive Delivery to Storage | - | 11 | Section B5 | N/A |
| B001019 | Raw Grinding and Blending | - | 19 | Section B1 | Sections C5,C7,C8,C9 |
| B001025 | Clinker Pyro Processing Kiln | 4-RK-1 | 36 | Section B6 | Sections C3,C4,C7,C8,C9, C10 |
| B001032 | Clinker Transfer to Storage | - | 34 | Section B2 | Sections C6,C7,C8,C9 |
| B001033 | Finish Mill No. 4 | 5-FM-4 | 70 | Section B1 | Sections C5,C7,C8,C9 |
| B001034 | Finish Mill No. 1 | 5-FM-1 | 62 | Section B1 | Sections C5,C7,C8,C9 |
| B001035 | Finish Mill No. 3 | 5-FM-3 | 66 | Section B1 | Sections C5,C7,C8,C9 |
| B001036 | Finish Mill No. 2 | 5-FM-2 | 74 | Section B1 | Sections C5,C7,C8,C9 |
| B001039 | Coal Reclaim | - | 120 | Section B3 | Section C1 |

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|---|---|---|---|---|---|
| | System | | | | |
| B001857 | Blending Operation for Kiln Feed | - | 25 | Section B2 | Sections C6,C7,C8,C9 |
| B001858 | Fly Ash Silo to Bin Storage | - | 80 | Section B2 | Sections C6,C7,C8,C9 |
| B001859 | Gypsum Unloading | - | 55 | Section B5 | N/A |
| B001864 | North Cement Loadout | - | 110 | Section B2 | Sections C6,C7,C8,C9 |
| B001865 | Cement Loadout Transfer | - | 113 | Section B2 | Sections C6,C7,C8,C9 |
| B001866 | Cement Packing Unit No. 2 | - | 90 | Section B2 | Sections C6,C7,C8,C9 |
| B001868 | Coal Grinding Mill No. 4 | 7-CM-4 | 125 | Section B3 | Section C1 |
| B001871 | Cement Truck Loadout Station No. 1 | - | 88 | Section B2 | Sections C6,C7,C8,C9 |
| B001872 | Cement Truck Loadout Station No. 2 | - | 92 | Section B2 | Sections C6,C7,C8,C9 |
| B001979 | Clay Dome Reclaim System | - | 18 | Section B5 | N/A |
| B001983 | Fly Ash Silo Transfer | - | 84 | Section B2 | Sections C6,C7,C8,C9 |
| B001984 | Alkali Dust Kiln Bypass System | - | 26 | Section B2 | Sections C6,C7,C8,C9 |
| B001985 | Cement Packing Unit No. 3 | - | 94 | Section B2 | Sections C6,C7,C8,C9 |
| B001986 | Auxiliary Coal Transport | - | 127 | Section B3 | Section C1 |
| B002089 | Cement Unload Equipment | - | 99 | Section B2 | Sections C6,C7,C8,C9 |
| B002109 | Cement Truck Loadout No. 3 Station | - | 96 | Section B2 | Sections C6,C7,C8,C9 |
| B002137 | Clinker Transfer to Storage | - | 30 | Section B2 | Sections C6,C7,C8,C9 |
| B002138 | Clinker Cooling Exhaust | - | 27 | Section B2 | Sections C6,C7,C8,C9 |
| B002405 | Roller Press System | - | 78 | Section B2 | Sections C6,C7,C8,C9 |
| B002784 | Coal Grinding Mill No. 3 | 7-CM-3 | 128 | Section B3 | Section C1 |
| B003948 | Sand Plant | - | 150 | Section B4 | Section C2 |

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|---|---|---|---|---|---|
| B004694 | Bio-Solids Handling System | - | 39 | Section B5 | N/A |
| B009462 | Portable Diesel ICE | 725-051 | 140 | Section B7a | N/A |
| B009466 | Portable Diesel ICE | 725-049 | 141 | Section B7a | N/A |
| B009582 | Clinker Storage Dome | - | 42 | Section B2 | Sections C6,C7,C8,C9 |
| B009929 | Portable Diesel ICE | 725-052 | 141 | Section B7a | N/A |
| B010041 | Wood Chipper | - | 40 | Section B5 | N/A |
| B010042 | Bauxite Unloading Hopper | - | 14A | Section B5 | N/A |
| B010724 | Chipped Tire Feed System | - | 40A | Section B5 | N/A |
| B011738 | Lime Injection System | - | 36A | Section B5 | N/A |
| B012291 | Dust Shuttling System | | 50A | Section B2 | Sections C6,C7,C8,C9 |
| C000961 | Dust Collector | 5-DC-10 | 63 | Section B1 | Sections C5,C7,C8,C9 |
| C000965 | Dust Collector | 5-DC-11 | 67 | Section B1 | Sections C5,C7,C8,C9 |
| C000972 | Dust Collector | 5-DC-17 | 81 | Section B2 | Sections C6,C7,C8,C9 |
| C000976 | Dust Collector | 5-DC-20 | 75 | Section B5 | N/A |
| C000984 | Dust Collector, Clinker Cooler | 4-DC-17 to 21 and 31 to 35 | 37 | Section B6 | Sections C3,C4,C7,C8,C9, C10 |
| C000988 | Dust Collector | 5-DC-5 | 109 | Section B2 | C6,C7,C8,C9 |
| C000990 | Dust Collector | 6-DC-17 | 107 | Section B2 | Sections C6,C7,C8,C9 |
| C000995 | Dust Collector | 5-DC-9 | 64 | Section B1 | Sections C5,C7,C8,C9 |
| C000996 | Dust Collector | 5-DC-16 | 82 | Section B2 | Sections C6,C7,C8,C9 |
| C000999 | Dust Collector | 4-DC-45 | 35 | Section B2 | Sections C6,C7,C8,C9 |
| C001000 | Dust Collector | 5-DC-6 | 65 | Section B1 | Sections C5,C7,C8,C9 |
| C001001 | Dust Collector | 5-DC-18 | 85 | Section B2 | Sections C6,C7,C8,C9 |
| C001002 | Dust Collector | 7-DC-9 | 118 | Section B3 | Section C1 |
| C001003 | Dust Collector | 7-DC-3 | 121 | Section B3 | Section C1 |
| C001005 | Dust Collector | 7-DC-1 | 119 | Section B3 | Section C1 |
| C001006 | Dust Collector | 7-DC-5 | 122 | Section B3 | Section C1 |
| C001013 | Dust Collector | 2-DC-1 | 2 | Section B5 | N/A |
| C001014 | Dust Collector | 2-DC-2 | 4 | Section B5 | N/A |

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|---|---|---|---|---|---|
| C001016 | Dust Collector | 2-DC-3 | 5 | Section B5 | N/A |
| C001017 | Dust Collector | 3-DC-1 | 6 | Section B5 | N/A |
| C001018 | Dust Collector | 3-DC-3 | 13 | Section B5 | N/A |
| C001020 | Dust Collector | 3-DC-4 | 20 | Section B1 | Sections C5,C7,C8,C9 |
| C001021 | Dust Collector | 3-DC-5 | 21 | Section B1 | Sections C5,C7,C8,C9 |
| C001023 | Dust Collector | 3-DC-6 | 22 | Section B1 | Sections C5,C7,C8,C9 |
| C001024 | Dust Collector | 3-DC-7 | 23 | Section B1 | Sections C5,C7,C8,C9 |
| C001026 | Dust Collector | 4-DC-40 | 31 | Section B2 | Sections C6,C7,C8,C9 |
| C001027 | Dust Collector | 4-DC-11 | 29 | Section B2 | Sections C6,C7,C8,C9 |
| C001028 | Dust Collector | 4-DC-5 thru 10 | 76 | Section B2 | Sections C6,C7,C8,C9 |
| C001029 | Dust Collector | 4-DC-12 | 48 | Section B2 | Sections C6,C7,C8,C9 |
| C001037 | Dust Collector | 5-DC-2 | 71 | Section B1 | Sections C5,C7,C8,C9 |
| C001041 | Dust Collector | 7-DC-8 | 126 | Section B3 | Section C1 |
| C001042 | Dust Collector | 7-DC-7 | 129 | Section B3 | Section C1 |
| C001333 | Dust Collector | 2-DC-4 | 16 | Section B5 | N/A |
| C001334 | Dust Collector | 2-DC-5 | 17 | Section B5 | N/A |
| C001335 | Dust Collector | 2-DC-6 | 7 | Section B5 | N/A |
| C001336 | Dust Collector | 2-DC-7 | 8 | Section B5 | N/A |
| C001337 | Dust Collector | 2-DC-8 | 9 | Section B5 | N/A |
| C001338 | Dust Collector, Kiln Exhaust | 3-DC-10 thru 45 | 38 | Section B6 | Sections C3,C4,C7,C8,C9, C10 |
| C001339 | Dust Collector | 2-DC-9 | 10 | Section B5 | N/A |
| C001340 | Dust Collector | 4-DC-41 | 32 | Section B2 | Sections C6,C7,C8,C9 |
| C001343 | Dust Collector | 7-DC-6 | 123 | Section B3 | Section C1 |
| C001462 | Dust Collector | 6-DC-2 | 95 | Section B2 | Sections C6,C7,C8,C9 |
| C001463 | Dust Collector | 6-DC-3 | 91 | Section B2 | Sections C6,C7,C8,C9 |
| C001464 | Dust Collector | 6-DC-4 | 87 | Section B2 | Sections C6,C7,C8,C9 |
| C001465 | Dust Collector | 6-DC-21 | 89 | Section B2 | Sections C6,C7,C8,C9 |
| C001466 | Dust Collector | 6-DC-22 | 93 | Section B2 | Sections |

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|---|---|---|---|---|---|
| | | | | | C6,C7,C8,C9 |
| C001467 | Dust Collector | 6-DC-29 | 116 | Section B2 | Sections C6,C7,C8,C9 |
| C001469 | Dust Collector | 5-DC-12 | 69 | Section B1 | Sections C5,C7,C8,C9 |
| C001471 | Dust Collector | 6-DC-20 | 104 | Section B2 | Sections C6,C7,C8,C9 |
| C001808 | Dust Collector | 6-DC-5 | 101 | Section B2 | Sections C6,C7,C8,C9 |
| C001809 | Dust Collector | 6-DC-12 | 102 | Section B2 | Sections C6,C7,C8,C9 |
| C001870 | Dust Collector | 6-DC-16 | 111 | Section B2 | Sections C6,C7,C8,C9 |
| C002111 | Dust Collector | 6-DC-24 | 97 | Section B2 | Sections C6,C7,C8,C9 |
| C002229 | Dust Collector | 4-DC-47 | 53 | Section B2 | Sections C6,C7,C8,C9 |
| C002406 | Dust Collector | 5-DC-41 | 79 | Section B2 | Sections C6,C7,C8,C9 |
| C002782 | Dust Collector, G-Cooler | 4-DC-46 | 33 | Section B2 | Sections C6,C7,C8,C9 |
| C002785 | Dust Collector | 5-DC-15A 5-DC-15B | 61 | Section B5 | N/A |
| C003209 | Dust Collector | 5-DC-23 | 56 | Section B5 | N/A |
| C003236 | Dust Collector | 6-DC-26 | 115 | Section B2 | Sections C6,C7,C8,C9 |
| C003949 | Dust Collector | 1-DC-1 | 152 | Section B4 | Section C2 |
| C004289 | Dust Collector | 1-DC-2 | 153 | Section B4 | Section C2 |
| C004290 | Dust Collector | 1-DC-3 | 154 | Section B4 | Section C2 |
| C005164 | Dust Collector | 5-DC-24 | 77 | Section B1 | Sections C5,C7,C8,C9 |
| C008145 | Dust Collector | 1-DC-4 | 155 | Section B4 | Section C2 |
| C008146 | Dust Collector | 1-DC-5 | 156 | Section B4 | Section C2 |
| C008147 | Dust Collector | 1-DC-6 | 157 | Section B4 | Section C2 |
| C008148 | Dust Collector | 1-DC-7 | 158 | Section B4 | Section C2 |
| C008149 | Dust Collector | 1-DC-8 | 159 | Section B4 | Section C2 |
| C008150 | Dust Collector | 1-DC-9 | 160 | Section B4 | Section C2 |
| C008151 | Dust Collector | 1-DC-10 | 161 | Section B4 | Section C2 |
| C009579 | Dust Collector | 5-DC-3 | 72 | Section B1 | Sections C5,C7,C8,C9 |
| C009581 | Dust Collector | 1-DC-11 | 162 | Section B4 | Section C2 |
| C009583 | Dust Collector | 4-DC-49 | 43 | Section B2 | Sections C6,C7,C8,C9 |
| C009585 | Dust Collector | 4-DC-50 | 44 | Section B2 | Sections C6,C7,C8,C9 |

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|---|---|---|---|---|---|
| C009587 | Dust Collector | 4-DC-53 | 45 | Section B2 | Sections C6,C7,C8,C9 |
| C009656 | Dust Collector | 6-DC-27 | 105 | Section B2 | Sections C6,C7,C8,C9 |
| C011253 | Dust Collector | 4-DC-54 | 29a | Section B2 | Sections C6,C7,C8,C9 |
| C011737 | Dust Collector | 4-DC-55 | 36B | Section B5 | N/A |
| C012290 | Dust Collector | 5-DC-19 | 50B | Section B2 | Sections C5,C7,C8,C9 |
| C012292 | Dust Collector | 5-DC-8 | 68 | Section B1 | Sections C5,C7,C8,C9 |
| C012292 | Dust Collector | 5-DC-8 | 68A | Section B2 | Sections C6,C7,C8,C9 |
| C012293 | Dust Collector | 6-DC-28 | 115A | Section B2 | Sections C6,C7,C8,C9 |
| C012320 | Dust Collector Clinker Breaker | 4-DC-28/29 | 37A | Section B6 | Sections C6,C7,C8,C9 |
| C012738 | Carbon Injection System | - | 36C | Section B5 | N/A |
| C012739 | Dust Collector | 5-DC-51 | 68B | Section B2 | Sections C5,C7,C8,C9 |
| C012740 | Dust Collector | 5-DC-52 | 68C | Section B2 | Sections C5,C7,C8,C9 |
| C013459 | Dust Collector | 5-DC-41A | 79A | Section B2 | Sections C6,C7,C8,C9 |
| C013987 | Dust Collector | 5-DC-42 | 79B | Section B2 | Sections C6,C7,C8,C9 |
| C013988 | Dust Collector | 5-DC-43 | 79C | Section B2 | Sections C6,C7,C8,C9 |
| C014322 | Dust Collector | 4-DC-51 | 47 | Section B2 | Sections C6,C7,C8,C9 |
| C014323 | Dust Collector | 4-DC-61 | 47A | Section B2 | Sections C6,C7,C8,C9 |
| C014325 | Dust Collector | 4-DC-14 | 46 | Section B2 | Sections C6,C7,C8,C9 |
| E010297 | Emergency DRP Generator | 0-EM-1 | 147 | Section B7c | Section C12 |
| E010971 | Emergency DRP Generator | 733-003 | 147A | Section B7c | Section C12 |
| E012736 | Emergency DRP Generator | 733-008 | 141A | Section B7b | Section C11 |
| E012737 | Emergency DRP Generator | 733-009 | 141B | Section B7b | Section C11 |
| N007349 | Gasoline Dispensing Facility | - | 132 | Section B9 | N/A |

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|---|---|---|---|---|---|
| T000971 | Flt Ash Truck Unload | - | 83 | Section B2 | Sections C6,C7,C8,C9 |
| T000985 | South Cement Storage Silos 19, 21 | - | 108 | Section B2 | Sections C6,C7,C8,C9 |
| T000987 | North Cement Storage Silos 20, 22 | - | 112 | Section B2 | Sections C6,C7,C8,C9 |
| T001030 | Alkali Dust Truck Loadout | - | 54 | Section B2 | Sections C6,C7,C8,C9 |
| T001031 | Clinker Storage Bin | - | 47B | Section B2 | Sections C6,C7,C8,C9 |
| T001869 | Cement Storage | - | 100 | Section B2 | Sections C6,C7,C8,C9 |
| T002090 | Raw Mix Blending Station | - | 24 | Section B2 | Sections C6,C7,C8,C9 |
| T002091 | Storage - Raw Additive | - | 14 | Section B5 | N/A |
| T002092 | Silo - Storage For Additives | - | 59 | Section B5 | N/A |
| T002093 | Clinker Storage | - | 28 | Section B2 | Sections C6,C7,C8,C9 |
| T002094 | Clinker Storage | - | 49 | Section B2 | Sections C6,C7,C8,C9 |
| T002095 | Silo - Storage For Additives | - | 58 | Section B5 | N/A |
| T002096 | Gypsum and Kiln Dust Storage | - | 50 | Section B5 | N/A |
| T002097 | Silo Storage | - | 124 | Section B3 | Section C1 |
| T002110 | Cement Storage and Transfer Silos | - | 98 | Section B2 | Sections C6,C7,C8,C9 |
| T002139 | Storage - Gypsum/Clay | - | 57 | Section B5 | N/A |
| T002228 | Clinker Holding Tank System | - | 52 | Section B2 | Sections C6,C7,C8,C9 |
| T003235 | Truck Loadout Silos | - | 114 | Section B2 | Sections C6,C7,C8,C9 |
| T004299 | White Sand Silos & Bagging Station | - | 151 | Section B4 | Section C2 |
| T005181 | Waste Oil Storage Tank | - | 139 | Section B8 | N/A |
| T010019 | Limestone Silo | - | 51 | Section B5 | N/A |
| B002087 | Unload Gypsum or ADMX | - | - | unit cancelled | unit cancelled |
| B003512 | Portable Diesel ICE | 871-023 | 130 | unit cancelled | unit cancelled |
| B003513 | Portable Diesel ICE | 871-010 | 131 | unit cancelled | unit cancelled |

| | | | | | |
|---|---|---|---|---|---|
| B003515 | Drill - Mobile Rock | - | - | unit cancelled | unit cancelled |
| B004642 | Diesel Engine | - | - | unit cancelled | unit cancelled |
| B009463 | Portable Diesel ICE | 871-030 | 142 | unit cancelled | unit cancelled |
| B009464 | Portable Diesel ICE | 725-046 | 143 | unit cancelled | unit cancelled |
| B009465 | Portable Diesel ICE | 725-047 | 144 | unit cancelled | unit cancelled |
| B009467 | Portable Diesel ICE | 733-001 | 146 | unit cancelled | unit cancelled |
| B009469 | Portable Diesel ICE | 871-029 | 147 | unit cancelled | unit cancelled |
| B009470 | Portable Diesel ICE | 871-031 | 148 | unit cancelled | unit cancelled |
| B009472 | Portable Diesel ICE | 871-032 | 149 | unit cancelled | unit cancelled |
| C000963 | Dust Collector | - | - | unit cancelled | unit cancelled |
| C000998 | Dust Collector | 5-DC-5 | 109 | unit cancelled | unit cancelled |
| C001044 | Dust Collector | 5-DC-1 | 73 | unit cancelled | unit cancelled |
| C001341 | Dust Collector | - | - | unit cancelled | unit cancelled |
| C001342 | Dust Collector | 4-DC-14 | 46 | unit cancelled | unit cancelled |
| C001473 | Dust Collector | - | - | unit cancelled | unit cancelled |
| C002101 | Dust Collector | 3-DC-9 | - | unit cancelled | unit cancelled |
| C002783 | Dust Collector | - | - | unit cancelled | unit cancelled |
| C003991 | Dust Collector | - | - | unit cancelled | unit cancelled |
| C003992 | Dust Collector | - | - | unit cancelled | unit cancelled |
| C008483 | Dust Collector | 4-DC-48 | - | unit cancelled | unit cancelled |
| C009584 | Dust Collector | 4-DC-51 | - | unit cancelled | unit cancelled |
| C009586 | Dust Collector | 4-DC-52 | - | unit cancelled | unit cancelled |
| C012321 | Dust Collector Clinker Handling | 4-DC-15/16 | 37B | unit cancelled | unit cancelled |
| E007911 | Emergency Generator | 733-002 | 133 | unit cancelled | unit cancelled |
| E007913 | Emergency Generator | 733-003 | 134 | unit cancelled | unit cancelled |
| E008201 | Emergency Generator | 0-EM-1 | 135 | unit cancelled | unit cancelled |
| E008202 | Emergency Generator | 733-008 | 136 | unit cancelled | unit cancelled |
| E008203 | Emergency Generator | 733-006 | 137 | unit cancelled | unit cancelled |
| N002528 | Gasoline Service Station - Non-Retail | - | - | unit cancelled | unit cancelled |
| T003212 | Tank - Waste Oil | - | - | unit cancelled | unit cancelled |
| T003213 | Tank - Waste Oil | - | - | unit cancelled | unit cancelled |

# APPENDIX B
## Rule/Regulation Applicability and Citations

# Rule/Regulation Applicability

| Rule (SIP version) | Rule Description | Solid Materials Handling | | | | | | Internal Combustion Engines | Waste Oil Tank | Gasoline Dispensing Facility |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Raw Mill and Finish Mill Subject to NESHAP Subpart LLL | Other Affected Sources Subject to NESHAP Subpart LLL | Coal Handling & Storage Subject to NSPS Subpart Y | Sand Plant Subject to NSPS Subpart OOO | Sources not Subject to NSPS or NESHAP | Kiln and Clinker Cooler Subject to NESHAP Subpart LLL | | | |
| | | C.1a | C.1b | C.1c | C.1d | C.1e | C.2 | C.3 | C.4 | C.5 |
| SIP Approved MDAQMD Rules | | | | | | | | | | |
| Rule 201 (7/25/1977) | Permit to Construct | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 203 (7/25/1977) | Permit to Operate | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 204 (7/25/1977) | Permit Conditions | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 206 (7/25/1977) | Posting | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 207 (7/25/1977) | Altering & Falsifying a Permit | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 209 (7/25/1977) | Transfer & Voiding of Permit | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 217 (7/25/1977) | Provisions for Sampling and Testing Facilities | Y | Y | Y | Y | Y | Y | Y | N | N |
| Rule 218 (7/25/1977) | Stack Monitoring | N | N | N | N | N | Y | N | N | N |
| Rule 401* *(5/7/1976 EPA)* | Visible Emission | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 403 *(5/7/1976 EPA)* | Fugitive Dust | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 404 (7/25/1977) | PM Concentration | Y | Y | Y | Y | Y | Y | Y | N | N |
| Rule 405 (7/25/1977) | PM Mass Emission | Y | Y | Y | Y | Y | Y | N | N | N |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rule 406(a) (7/25/1977) | Specific Gas | N | N | N | N | N | Y | Y | N | N |
| Rule 407 *(5/7/1976 EPA)* | CO Emission | N | N | N | N | N | Y | N | N | N |
| Rule 408 *(5/7/1976 EPA)* | Circumvention | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 409 *(5/7/1976 EPA)* | Combustion Contaminants | N | N | N | N | N | Y | Y | N | N |
| Rule 431 *(10/8/1976 EPA)* | Sulfur Content of Fuels | N | N | N | N | N | Y | Y | N | N |
| Rule 432 *(5/7/1976 EPA)* | Gasoline Specification | N | N | N | N | N | N | N | N | Y |
| Rule 442 (2/27/2006) | Use of Solvents | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 444 9/25/2006) | Open Outdoor Fires | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 461* (5/25/1994) | Gasoline Transfer & Dispensing | N | N | N | N | N | N | N | N | Y |
| Rule 462* (5/25/1994) | Organic Liquid Loading | N | N | N | N | N | N | N | N | Y |
| Rule 463* (11/2/1992) | Organic Liquid Storage | N | N | N | N | N | N | N | N | Y |
| Rule 1104 (4/23/2018) | Degreasing | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1114 (1/22/2018) | Wood Products Coating Operations | N | N | N | N | N | Y | N | N | N |
| Rule 1115 (1/22/2018) | Metal & Products Coating | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1160* 10/26/1994) | Internal Combustion Engines | N | N | N | N | N | Y | N | N | N |
| Rule 1161* (3/25/2002) | Cement Kilns | N | N | N | N | N | Y | N | N | N |
| **Non-Federally Enforceable SIP-pending MDAQMD Rules** | | | | | | | | | | |
| Rule 219 (8/23/2010) | Equipment Not Requiring a Permit | Y | Y | Y | Y | Y | Y | Y | Y | Y |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rule 221 (2/28/2011) | Federal Permit | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 403.2 (7/22/96) | Fugitive Dust Control for the Mojave Desert Planning Area | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1113 (4/3/2012) | Architectural Coating | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| **Prior SIP-approved versions of SIP-pending MDAQMD Rules** | | | | | | | | | | |
| Rule 219 (7/25/1977) | Equipment Not Requiring a Permit | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 221 (12/21/1994) | Federal Permit | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 401 (8/26/2019) | Visible Emissions | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 461 (1/22/2018 | Gasoline Transfer and Dispensing | N | N | N | N | N | Y | N | N | N |
| Rule 462 (1/22/2018) | Organic Liquid Loading | N | N | N | N | N | Y | N | N | N |
| Rule 463 (1/22/2018) | Storage of Organic Liquids | N | N | N | N | N | Y | N | N | N |
| Rule 1113 (2/24/2003) | Architectural Coating | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1160 (1/22/2018) | Internal Combustion Engines | N | N | N | N | N | Y | N | N | N |
| Rule 1161 (1/22/2018) | Cement Kilns | N | N | N | N | N | Y | N | N | N |
| **Other Federally enforceable Requirements** | | | | | | | | | | |
| Rule 900 | NSPS, Part 60. Subpart A, Y, &OOO | N | N | Y | Y | N | N | N | N | N |
| Rule 900 | NSPS, Part 60 Subpart IIII Non-emergency gen. | N | N | N | N | N | N | Y | N | N |
| Rule 1000 | NESHAP, Part 61, M (asbestos) | N | N | N | N | N | N | N | N | N |
| Rule 1000 | NESHAP, Part 63 Subpart A&LLL | Y | Y | N | N | N | Y | N | N | N |

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|---|---|---|---|---|---|---|---|---|---|---|
| Rule 1000 | NESHAP, Part 63, Subp. ZZZZ, emerg. gen. | N | N | N | N | N | N | Y | N | N |
| Rule 1000 | NESHAP, Part 63, Subp. ZZZZ, non-emerg. gen. | N | N | N | N | N | N | Y | N | N |
| Regulation XII | Title V Permit | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1200 (2/28/2011 | General | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1201 9/26/2005) | Definitions | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1202 (9/26/2005) | Applications | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1203(9/26/2005) | Federal Operating Permits | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1205 (9/26/2005) | Modifications of Federal Operating Permits | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1206 (9/26/2005) | Reopening, Reissuance and Termination of Federal Operating Permits | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1207 9/26/2005) | Notice and Comment | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1208 (9/26/2005) | Certification | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1209 (9/26/2005) | Appeals | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 1210 (9/26/2005) | Acid Rain Provisions of Federal Operating Permits | N | N | N | N | N | N | N | N | N |
| Rule 1211 (2/28/2011) | Greenhouse Gas Provisions of Federal Operating Permits | N | N | N | N | N | N | N | N | N |
| 40 CFR 64 | Compliance Assurance Monitoring | N | N | N | N | N | N | N | N | N |
| 40 CFR 82 | Ozone Depleting Chemicals (refrigerants) | N | N | N | N | N | N | N | N | N |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Non-SIP Requirements** | | | | | | | | | | |
| Rule 301 (1/1/2020) | Permit Fees | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 312 (6/24/2019) | Fees for Federal Operating Permits | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 402 (7/25/1977) | Nuisance | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Rule 430 (12/21/1994) | Breakdown Provisions | Y | Y | Y | Y | Y | Y | Y | Y | Y |

Notes:

NSPS IIII and NESHAP ZZZZ non-emerg. apply to two non-emergency generators at plant, and NESHAP ZZZZ emergency applies to one emergency generator.

All other IC engines are not subject to NSPS IIII or NESHAP ZZZZ.

40CFR64 does not apply to any units at the plant

40CFR82 only applies to unpermitted units at the plant

## District Rule SIP Citations and Basis/Authority

**Rules in the SIP for the MDAQMD**

| Agency | Rule # | Rule Title | Effective Area | Rule Book Version | SIP Version | Submit Date | CFR | FR Date | FR Cite |
|---|---|---|---|---|---|---|---|---|---|
| Old SB | 2 | Definitions | SBC | MD 102 | Bef 02/72 | 2/21/1972 | 40 CFR 52.2236(e)(4)(i)(A) | 12/21/1978 | 43 FR 59489 |
| Old SB | 5 (a) | Public Availability of Emissions Data | SBC | None | Bef 02/73 | 7/25/1973 | 40 CFR 52.220(c)(21)(xv)(A) | 6/14/1978 | 43 FR 25684 |
| RC | 51 | Nuisance | RC | MD 402, 07/25/1977 via Res. 94-03 | Bef 02/72 | 2/21/1971 | 40 CFR 52.220(c)(7) | 5/31/1977 | |
| RC | 52 | Particulate Matter - Concentration | | MD 405, 07/25/1977 via Res. 94-03 | Bef 06/72 | | 40 CFR 52.228(b)(1)(iii)(A) | 9/8/1978 | 43 FR 40011 |
| RC | 53 | Specific Air Contaminants | RC | MD 406, 02/20/1979 via Res. 94-03 | G-73 | 6/6/1977 | 40 CFR 52.240(a)(1)&(d)(1)(i) | 1/16/1981 | 46 FR 3883 |
| RC | 54 | Solid Particulate Matter, Weight | RC | MD 405, 07/25/1977 via Res. 94-03 | Bef 06/72 | 6/30/1972 | 40 CFR 52.228(b)(1)(iii)(A) | 9/8/1978 | 43 FR 4011 |
| Old SB | 54A | Solid Particulate Matter, Weight | SBC | MD 405, 07/25/1977 | Unknown | 6/30/1972 | 40 CFR 52.240(a)(1)&(d)(1)(i) | 1/16/1981 | 46 FR 3883 |
| RC | 56 | Scavenger Plants | RC | None | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(iv)(C) | 9/8/1978 | 43 FR 40011 |
| RC | 58 | Disposal of Solid and Liquid Wastes | RC | MD 473, 7/25/77 via Reso 04-03 | Bef 06/72 | | 40 CFR 52.228(b)(1)(iii)(A) | 9/8/1978 | 43 FR 40011 |
| Old SB | 58 A | Disposal of Solid and Liquid Wastes | SBC | MD 473, 07/25/77 | Bef 02/72 | | 40 CFR 52.240(a)(1) & (d)(1)(i) | 1/16/1981 | 46 FR 3883 |
| Old SB | 62.1 | Sulfur Content of Natural Gas | SBC | None but See MD 431 | Bef 02/72 | 2/21/1972 | 40 CFR 52.240(a)(1) & (d)(1)(i) | 1/16/1981 | 46 FR 3883 |
| Old SB | 67 | Fuel Burning Equipment | SBC | None but See MD 474 and 476 | Bef 02/72 | | 40 CFR 52.220(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 52.220(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 FR3886 |
| 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 Dec12/21/1994 | Bef 06/72 | 6/30/1972 | 40 CFR 52.269(b)(3)(ii)(A) | | |
| SC | 101 | Title | RC | 7/1/1993 via Res. 94-03 | Bef 11/77 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 101 | Title | SBC | 7/1/1993 | 12/19/1998 | 3/26/1990 | 40 CFR 52.220(c)(179)(i)(B) | 11/27/1990 | 55 FR 49281 |
| MD | 102 | Definition of Terms | | 4/23/2018 | 8/17/2018 | 40 CFR 52.220(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 | 12/31/1990 | 40 CFR 52.220(c)(182)(i)(A)(3) | 8/30/1993 | 58 FR 45445 |
| SC | 109 | Record keeping for Volatile Organic Compound Emissions | RC | None | Bef 09/92 | 9/14/1992 | 40 CFR 52.220(c)(189)(i)(A)(6) | 4/13/1995 | 60 FR 18751 |
| SC | 201 | Permit to Construct | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 201 | Permit to Construct | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 202 | Temporary Permit to Operate | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 202 | Temporary Permit to Operate | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 203 | Permit to Operate | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 203 | Permit to Operate | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 204 | Permit Conditions | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| MD | 204 | Permit Conditions | SBC | 7/25/1977 | G-73 | | | | |
| SC | 205 | Cancellation of Application | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 205 | Cancellation of Application | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 206 | Posting of Permit to Operate | RC | 7/25/1977 via Res.94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 206 | Posting of Permit to Operate | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 207 | Altering or Falsifying of Permit | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 207 | Altering or Falsifying of Permit | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 208 | Permit for Open Burning | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 208 | Permit for Open Burning | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SC | 209 | Transfer and Voiding of Permit | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 209 | Transfer and Voiding of Permit | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 212 | Standards for Approving Permits | RC | 7/25/1977 via Res. 94-03 | 5/1/1987 | 6/9/1987 | 40 CFR 52.220(c)(173)(i)(A)(1) | 2/3/1989 | 54 FR 5448 |
| SB | 212 | Standards for Approving Permits | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 217 | Provision for Sampling and Testing Facilities | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 217 | Provision for Sampling and Testing Facilities | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 218 | Stack Monitoring | RC | 7/25/1977 via Res. 94-03 | Bef 10/81 | 10/23/1981 | 40 CFR 52.220(c)(103)(xviii)(A) | 7/6/1982 | 47 FR 29231 |
| SO | 218 | Stack Monitoring | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(i)(C) | 9/8/1978 | 43 FR 40011 |
| SB | 219 | Equipment Not Requiring a Written Permit | SBC | 1/28/2019 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 219 | Equipment Not Requiring a Written Permit Pursuant to Regulation II | RC | 1/28/2019 | 9/4/1981 | 10/23/1981 | 40 CFR 52.220(c)(103)(xviii)(A) | 7/6/1982 | 47 FR 29231 |
| MD | 219 | Equipment Not Requiring a Written Permit | MD | 1/28/2019 | (SIP Sub) | | | | |
| SC | 220 | Exemtion, Net Increase in Emissions | RC | 11/25/1991 via Res. 94-03 | 8/7/1981 | 10/23/1981 | 40 CFR 52.220(c)(103)(xviii)(A) | 7/6/1982 | 47 FR 29231 |

**Rules in the SIP for the MDAQMD**

| Agency | Rule # | Rule Title | Effective Area | Rule Book Version | SIP Version | Submit Date | CFR | FR Date | FR Cite |
|---|---|---|---|---|---|---|---|---|---|
| SC | 221 | Plans | RC | None | 1/4/1985 | 11/12/1985 | 40 CFR 52.220(c)(165)(i)(B)(1) | 4/17/1987 | 52 FR 12522 |
| MD | 221 | Federal Operating Permit Requirement | MD | 2/28/2011 | 2/21/1994 | 3/31/1995 | 40 CFR 52.220(c)(216)(i)(A)(2) | 2/5/1996 | 61 FR 4217 |
| MD | 221 | Federal Operating Permit Requirement | MD | 2/28/2011 | (SIP Sub) | 6/21/2011 | | | |
| MD | 222 | Limitation on Potential to Emit | MD | 2/28/2011 | 7/31/1995 | 10/13/1995 | 40 CFR 52.220(c)(225)(i)(H)(1) | 8/31/2004 | 69 FR 53005 |
| MD | 222 | Limitation on Potential to Emit | MD | 2/28/2011 | (SIP Sub) | 6/21/2011 | | | |
| SC | 301.2 | Fee Schedules | RC | None | 6/3/1983 | 7/19/1983 | 40 CFR 52.220(c)(137)(vii)(B) | 10/19/1984 | 49 FR 41028 |
| MD | 315 | Federal Clean Air Act Section 185 Penalty | MD | 10/24/2011 | (SIP Sub) | 12/14/2011 | | | |
| SC | 401 | Visible Emissions | RC | 8/26/2019 | 4/7/1989 | 3/26/1990 | 40 CFR 52.220(c)(155)(iv)(B) | 1/29/1985 | 50 FR 3906 |
| MD | 401 | Visible Emissions | MD | 8/26/2019 | Sip Sub | | | | |
| SC | 403 | Fugitive Dust | | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 403 | Fugitive Dust | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 9/8/1978 | 43 FR 40011 |
| MD | 403.1 | Respirable Particulate Matter in SVPA | MD | 11/25/1996 | 11/25/1996 | 3/3/1997 | 40 CFR 52.220(c)(224)(i)(C)(2) | 8/13/2009 | 74 FR 40750 |
| MD | 403.2 | Fugitive Dust Control for MDPA | MD | 7/22/1996 | (SIP Sub) | 10/18/1996 | | | |
| SC | 404 | Particulate Matter, Concentration | RC | 7/25/1977 via Res. 94-03 | 10/5/1979 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 404 | Particulate Matter, Concentration | RC | 7/25/1977 via Res. 94-03 | 10/5/1979 | 2/3/1983 | 40 CFR 52.220(c)(137)(vii)(B) | 10/4/1984 | 49 FR 41028 |
| SB | 404 | Particulate Matter - Concentration | SBC | 7/25/1977 | Current | 11/4/1977 | 40 CFR 52.220(c)(42)(xiii)(A) | 12/21/1978 | 43 FR 52489 |
| SC | 405 | Solid Particulate Matter, Weight | RC | 7/25/1977 via Res. 94-03 | 5/7/1976 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 405 | Solid Particulate Matter, Weight | SBC | 7/25/1977 | Current | 11/4/1977 | 40 CFR 52.220(c)(42)(xiii)(A) | 12/21/1978 | 43 FR 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 59489 |
| SC | 407 | Liquid and Gaseous Air Contaminants | RC | 7/25/1977 via Res. 94-03 | 4/2/1982 | 8/6/1982 | 40 CFR 52.220(c)(124)(iv)(A) | 11/10/1982 | 47 FR 50864 |
| SB | 407 | Liquid and Gaseous Air Contaminants | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SC | 408 | Circumvention | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 408 | Circumvention | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SC | 409 | Combustion Contaminants | RC | 7/25/1977 via Res. 94-03 | 8/7/1981 | 10/23/1981 | 40 CFR 52.220(c)(103)(xviii)(A) | 7/6/1982 | 47 FR 29231 |
| SB | 409 | Combustion Contaminants | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SB | 431 | Sulfur Content of Fuels | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 9/8/1978 | 43 FR 40011 |
| SC | 431.1 | Sulfur Content of Gaseous Fuels | RC | See MD 431 | 5/6/1983 | 7/19/1983 | 40 CFR 52.220(c)(137)(vii)(B) | 10/19/1984 | 49 FR 41028 |
| SC | 431.2 | Sulfur Content of Liquid Fuels | RC | See MD 431 | Bef 8/80 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 431.3 | Sulfur Content of fossil Fuels | RC | See MD 431 | Bef 8/80 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 432 | Gasoline Specifications | | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 432 | Gasoline Specifications | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 9/8/1978 | 43 FR 40011 |
| MD | 442 | Usage of Solvents | MD | 2/27/2006 | Current | 10/5/2006 | 40 CFR 52.220(c)(347)(i)(C)(1) | 9/17/2007 | 72 FR 52791 |
| SC | 443 | Labeling of Solvents | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 443 | Labeling of Solvents | | | | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| MD | 444 | Open Fires | | 9/25/2006 | Current | 5/8/2007 | 40 CFR 52.220(c)(350)(B)(1) | 10/31/2007 | 72 FR 61525 |
| 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 orSystems | RC | Rescinded & Fed. Reg. 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. Reg. Dec 12/21/1994 | Not SIP | 12/29/1994 | 40 CFR 52.222(a)(1)(iii) | 9/11/1995 | 60 FR 47074 |
| SC | 466 | Pumps and Compressors | RC | Rescinded & See 1102 10/26/94 | Bef 12/83 | 12/2/1983 | 40 CFR 52.220(c)(166)(i)(A)(1) | 1/15/1987 | 52 FR 1627 |
| MD | 466 | Pumps and Compressors (Rescinded) | MD | Rescinded & See 1102 10/26/94 | Not SIP | 11/30/1994 | 40 CFR 52.220(c)(39)(ii)(G) | 8/19/1999 | 64 FR 45175 |
| SC | 466.1 | Valves and Flanges | RC | None | 5/2/1980 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 468 | Sulfur Recovery Units | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 468 | Sulfur Recovery Units | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SC | 469 | Sulfuric Acid Units | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 469 | Sulfuric Acid Units | | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| MD | 471 | Asphalt Roofing Operations | | 12/21/1994 | Current | 12/22/1994 | 40 CFR 52.220(c)(210)(i)(C)(2) | 2/29/1996 | 61 FR 7706 |
| SC | 472 | Reduction of Animal Matter | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 472 | Reduction of Animal Matter | SBC | 7/25/1977 | 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 | | 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)(iii)(A) | 1/27/1981 | 46 FR 8471 |

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|---|---|---|---|---|---|---|---|---|---|
| SC | 481 | Spray Coating Operations | RC | 1113, 1114, 1115 & 1116 | 5/5/1978 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 501 | General | RC | 6/10/2019 | Ref 8/80 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| MD | 900 | Standards of Performance for New Stationary Sources | MD | 2/25/2019 | Delegated | | | | |
| MD | 1000 | National emissions Standards fro Hazardous Air Pollutants | MD | 2/25/2019 | Delegated | | | | |
| SC | 1101 | Secondary Lead 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) | 3/24/1993 | 57 FR 10136 |
| MD | 1102 | Fugitive Emissions of VOC's from Components at Pipeline Transfer Stations | MD | 10/26/1994 | Current | 11/30/1994 | 40 CFR 52.220(c)(207)(i)(D) | 9/27/1995 | 60 FR 49772 |
| SC | 1102.1 | Perchloroethylene Dry Cleaning Systems | RC | None | 12/7/1990 | 5/31/1991 | 40 CFR 52.220(c)(184)(i)(B)(1) | 3/24/1992 | 57 FR 10136 |
| SC | 1103 | Pharmaceuticals and Cosmetics Manufacturing Operation | RC | None | 4/6/1980 | 4/23/1980 | 40 CFR 52.220(c)(69)(iii) | 7/8/1982 | 47 FR 29668 |
| MD | 1103 | Cutback and Emulsified Asphalt | MD | 12/21/1994 | Current | 12/22/1994 | 40 CFR 52.220(c)(207)(i)(C)(1) | 2/5/1996 | 61 FR 4215 |
| SC | 1104 | Wood Flat Stock Coating Operations (SC Amended 8/2/91) | | None | 3/1/1991 | 10/25/1991 | 40 CFR 52.220(c)(186)(i)(C)(1) | 6/23/1994 | 59 FR 32354 |
| MD | 1104 | Organic Solvent Degreasing Operations | MD | 4/23/2018 | Current | 7/16/2018 | 40 CFR 52.220(c)(519)(i)(A)(1) | 7/2/2019 | 84 FR 31682 |
| SC | 1105 | Fluid Catalytic Cracking Units Oxides of Nitrogen (SC Adopted 9/8/84) | R/ | None | 9/8/1984 | 2/6/1985 | 40 CFR 52.220(c)(159)(v)(C) | 7/12/1990 | 55 FR 28625 |
| MD | 1106 | Marine & Pleasure Craft Coating Operations | MD | 10/24/2016 | Current | Aft 10/2016 | 40 CFR 52.220(c)(498)(i)(B)(1) | 2/12/2018 | 83 FR 5940 |
| SC | 1107 | Miscellaneous Metal Parts, Products and Coatings Operations. | RC | None | 9/6/1991 | 5/13/1993 | 40 CFR 52.220(c)(193)(i)(A)(1) | 12/20/1993 | 58 FR 66285 |
| SC | 1108 | Cutback Asphalt | RC | None | 2/1/1985 | 4/12/1985 | 40 CFR 52.220(c)(160)(i)(E)(1) | 7/12/1990 | 55 FR 28624 |
| SC | 1108.1 | Elmusified Asphalt | RC | None | Ref 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 | Ref 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 | Ref 10/83 | 10/27/1983 | 40 CFR 52.220(c)(148)(vi)(A) | 5/3/1984 | 49 FR 18839 |
| 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 | Ref 7/84 | 7/10/1984 | 40 CFR 52.220(c)(155)(iv)(A) | 1/24/1985 | 50 FR 3339 |
| MD | 1113 | Architectural Coatings | MD | 4/23/2012 | Current | 2/6/2013 | 40 CFR 52.220(c)(428)(i)(C)(1) | 1/3/2014 | 79 FR 365 |
| MD | 1114 | Wood Products Coating Operations | MD | 1/22/2018 | Current | 3/3/1997 | 40 CFR 52.220(c)(518)(i)(A)(1) | 7/2/2019 | 84 FR 31682 |
| SC | 1115 | Motor Vehicle Assembly and Component Coating Operations | RC | None | 3/6/1992 | 9/14/1992 | 40 CFR 52.220(c)(189)(i)(A)(1) | 12/20/1993 | 58 FR 66282 |
| MD | 1115 | Metal Parts & Products Coating Operations | MD | 1/22/2018 | Current | 5/23/2018 | 40 CFR 52.220(c)(518)(i)(A)(2) | 2/27/2020 | 85 FR 11812 |
| MD | 1116 | Automotive Refinishing Operations | MD | 8/23/2010 | Current | 4/5/2011 | 40 CFR 52.220(c)(388)(i)(F)(1) | 8/19/2012 | 77 FR 47536 |
| SC | 1117 | Emissions of Oxides of Nitrogen from Glass Melting Furnaces | RC | None | SC 1/6/1984 | 12/3/1984 | 40 CFR 52.220(c)(159)(v)(D) | 7/12/1990 | 55 FR 28624 |
| MD | 1117 | Graphic Arts | MD | 9/28/2009 | Current | 7/20/2010 | 40 CFR 52.220(c)(381)(i)(H)(1) | 3/1/2012 | 77 FR 12495 |
| MD | 1118 | Aerospace Vehicle Parts & Products Coating Operations | MD | 10/26/2015 | Current | 4/21/2016 | 40 CFR 52.220(c)(485)(i)(B)(1) | 6/21/2017 | 82 FR 28240 |
| SC | 1119 | Petroleum Coke Calcining Operations Oxides of Sulfur | RC | None | 8/2/1979 | 7/25/1980 | 40 CFR 52.220(c)(88)(iii)(A) | 9/28/1981 | 46 FR 47451 |
| SC | 1120 | Asphalt Pavement Heaters | RC | None | 8/4/1978 | 7/25/1980 | 40 CFR 52.220(c)(65)(ii) | 9/28/1981 | 46 FR 47451 |
| SC | 1121 | Control of Nitrogen Oxides from Residential Type Natural Gas Fired Water Heaters | RC | None | 12/1/1978 | 4/2/1980 | 40 CFR 52.220(c)(67)(i)(B) | 9/28/1981 | 46 FR 47451 |
| SC | 1122 | Solvent Metal Cleaners (Degreasers) | | None | 7/8/1983 | 10/27/1983 | 40 CFR 52.220(c)(148)(vi)(B) | 10/3/1984 | 49 FR 39057 |
| SC | 1123 | Refinery Process Turnaround | RC | None | SC 12/7/1990 | 5/13/1991 | 40 CFR 52.220(c)(184)(i)(B)(2) | 8/11/1992 | 57 FR 35758 |
| SC | 1124 | Aerospace Assembly and Component Coating Operations | RC | None | BEF 4/84 | 4/19/1984 | 40 CFR 52.220(c)(154)(vii)(A) | 1/24/1985 | 50 FR 3339 |
| SC | 1125 | Metal Container, Closure and Coil Coating Operations | RC | None | SC 8/2/1991 | 5/13/1993 | 40 CFR 52.220(c)(189)(i)(A)(4) | 4/14/1994 | 59 FR 17898 |
| SC | 1126 | Magnet Wire Coating Operations | RC | None | SC 3/6/1992 | 9/14/1992 | 40 CFR 52.220(c)(189)(i)(A)(2) | 12/20/1993 | 58 FR 66286 |
| MD | 1126 | Municipal Solid Waste Landfills | MD | 8/28/2000 | Not SIP | 12/20/200 | 40 CFR 60.22 | | |
| 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 | Ref 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 | Ref 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 | Ref 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 | Ref 5/13/1993 | 5/13/1993 | 40 CFR 52.220(c)(193)(i)(A)(1) | 12/20/1993 | 58 FR 66286 |
| SC | 1153 | Commercial Bakery Ovens | RC | None | SC 1/4/1991 | 5/13/1991 | 40 CFR 52.220(c)(184)(i)(B)(3) | 9/29/1993 | 58 FR 50850 |
| MD | 1157 | Boilers and Process Heaters | MD | 1/22/2018 | 5/19/1997 | 8/1/1997 | 40 CFR 52.220(c)(248)(i)(D) | 4/20/1999 | 64 FR 19277 |
| MD | 1157 | Boilers and Process Heaters | MD | 1/22/2018 | (SIP Sub) | 5/23/2018 | | | |
| SC | 1158 | Storage, Handling and Transport of Petroleum Coke | RC | None | SC Ref 5/93 | 3/14/1984 | 40 CFR 52.220(c)(153)(vii)(B) | 1/15/1987 | 52 FR 1627 |
| MD | 1158 | Electric Power Generating Facilities | MD | 6/26/2017 | 8/25/1997 | 3/10/1998 | 40 CFR 52.220(c)(254)(i)(H)(2) | 7/20/1999 | 64 FR 38832 |
| MD | 1158 | Electric Power Generating Facilities | MD | 6/26/2017 | (SIP Sub) | 11/13/2017 | | | |
| SC | 1159 | Nitric Acid Units - Oxides of Nitrogen | RC | None | SC 12/6/1985 | 2/10/1986 | 40 CFR 52.220(c)(168)(I)(H) | 7/12/1990 | 55 FR 28622 |
| MD | 1159 | Stationary Gas Turbines | MD | 9/28/2009 | Current | 5/17/2010 | 40 CFR 52.220(c)(379)(i)(E)(1) | 10/25/2012 | 77 FR 65133 |
| MD | 1160 | Internal Combustion Engines | MD | 1/22/2018 | 10/26/1994 | 11/30/1994 | 40 CFR 52.220(c)(207)(i)(D)(3) | 11/1/1996 | 61 FR 56470 |
| MD | 1160 | Internal Combustion Engines | MD | 1/22/2018 | (SIP Sub) | 5/23/2018 | | | |
| MD | 1161 | Portland Cement Kilns | MD | 1/22/2018 | 3/25/2002 | 6/18/2002 | 40 CFR 52.220(c)(300)(i)(A)(1) | 2/27/2003 | 68 FR 9015 |
| MD | 1161 | Portland Cement Kilns | MD | 1/22/2018 | (SIP Sub) | 5/23/2018 | | | |
| MD | 1162 | Polyester Resin Operations | MD | 1/22/2018 | 8/27/2007 | 3/7/2008 | 40 CFR 52.220(c)(354)(i)(B)(1) | 11/24/2008 | 73 FR 70883 |

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|---|---|---|---|---|---|---|---|---|---|
| MD | 1162 | Polyester Resin Operations | MD | 1/22/2018 | Current | 5/23/2018 | 40 CFR 52.220(c)(519)(i)(A)(1) | 2/27/2020 | 85 FR 11812 |
| SC | 1164 | Semiconductor Manufacturing Operations | RC | None | 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 FR66285 |
| SC | 1173 | Fugitive Emissions of Volatile Organic Compounds | RC | None | 12/7/1990 | 6/18/1992 | 40 CFR 52.220(c)(188)(i)(c)(1) | 12/20/1993 | 58 FR 66285 |
| SC | 1175 | Control of Emissions from the Manufacture of Polymeric Cellular (Foam) Products | RC | None | SC 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 | Emission Offsets | MD | 8/28/2006 | 3/25/1996 | 7/23/1996 | 40 CFR 52.220(c)(239)(i)(A)(1) | 11/13/1996 | 61 FR 58133 |
| MD | 1305 | Emissions Offsets | MD | 8/28/2006 | (SIP Sub) | 12/29/2006 | | | |
| MD | 1306 | Electric Energy Generating Facilities | | | 3/25/1996 | 7/23/1996 | 40 CFR 52.220(c)(239)(i)(A)(1) | 11/13/1996 | 61 FR 58133 |
| MD | 1306 | Electric Energy Generating Facilities | | 9/24/2001 | (SIP Sub) | 12/14/2001 | | | |
| MD | 1310 | Federal Major Facilities and Federal Major Modifications | | 8/28/2006 | (SIP Sub) | 12/29/2006 | | | |
| MD | 1400 | General (Emission Reduction Credits) | MD | 6/28/1995 | Current | 8/10/1995 | 40 CFR 52.220(c)(224)(i)(C) | 1/22/1997 | 62 FR 3215 |
| MD | 1401 | Definitions (Emissions Reduction Credits) | MD | 6/28/1995 | Current | 8/10/1995 | 40 CFR 52.220(c)(224)(i)(C) | 1/22/1997 | 62 FR 3215 |
| MD | 1402 | Emission Reduction Credits Registry | MD | | 6/28/1995 | 8/10/1995 | 40 CFR 52.220(c)(224)(i)(C) | 1/22/1997 | 62 FR 3215 |
| MD | 1404 | Emission Reduction Credit Calculations | MD | 6/28/1995 | Current | 8/10/1995 | 40 CFR 52.220(c)(224)(i)(C) | 1/22/1997 | 62 FR 3215 |
| MD | 1520 | Control of Toxic Air Contaminants From Existing Sources | MD | 3/25/2019 | (SIP Sub) | | | | |
| MD | 1600 | Prevention of Significant Deterioration | MD | 9/22/2016 | (SIP Sub) | 1/24/2017 | | | |
| MD | 2001 | Transportation Conformity | MD | 2/22/1995 | ?? | | | | |
| MD | 2002 | General Federal Actions Conformity | MD | 10/26/1994 | Current | 5/10/1996 | 40 CFR 52.220(c)(231)(i)(C)(1) | 4/23/1999 | 64 FR 19916 |
| MD | FND | Fed. Neg. Dec. - Asphalt Air Blowing | MD | | Current | 12/20/1994 | 40 CFR 52.222(a)(1)(ii) | 9/11/1995 | 60 FR 47074 |
| MD | FND | Fed. Neg. Dec. - Air Oxidation Process - SOCMI | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Chemical Processing & Manufacturing | RC | 5/25/1994 via Res. 94-03 | Unknown | | | | |
| MD | FND | Fed. Neg. Dec. - Chemical Processing & Manufacturing | SBC | 5/25/1994 | Current | 12/29/1994 | | 1/31/1995 | 60 FR 38 |
| MD | FND | Fed. Neg. Dec. - Equipment Leaks from Natural Gas/Gasoline Processing Plants | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Fugitive Emissions From Synthetic Organic chemical Polymer and Resin manufacturing Equipment | MD | 8/23/2010 | Current | 10/22/2010 | 40 CFR 52.222(a)(1)(vi) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Industrial Wastewater | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Large Petroleum Dry Cleaners | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Leaks from Petroleum Refinery Equipment | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Manufacture of High-Density Polyethylene, Polypropylene, and Polystyrene Resins | MD | 8/23/2010 | Current | 10/22/2010 | 40 CFR 52.222(a)(1)(vi) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment | RC | 5/25/1994 via Res. 94-03 | Unknown | | | | |
| MD | FND | Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment | SBC | 5/25/1994 | Current | 7/13/1994 | 40 CFR 52.222(a)(1)(i) | 1/31/1995 | 60 FR 38 |
| MD | FND | Fed. Neg. Dec. - Offset Lithography | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Orchard & Citrus Heaters | MD | 6/24/1996 | ?? | | | | |
| MD | FND | Fed. Neg. Dec. - Petroleum Refinery Equipment | MD | 8/23/2010 | Current | 10/22/2010 | 40 CFR 52.222(a)(1)(vi) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Plastic Parts Coating (Business Machines) | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Plastic Parts Coating (other) | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Pneumatic Rubber Tire Manufacturing | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |

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|---|---|---|---|---|---|---|---|---|---|
| MD | FND | Fed. Neg. Dec - Polymer Manufacturing SOCMI and Polymer manufacturing Equipment Leaks | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Process Unit Turnarounds | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Reactor Processes and Distillation Operations in SOCMI | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Ship Building | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Cans | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Coils | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Fabrics | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Large Appliances | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Magnet Wire | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed Neg. Dec. - Surface Coating Operations at Automotive and Light Duty Truck Assembly Plants | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Synthesized Pharmaceutical Products | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Batch Processing | MD | | Current | 8/7/1995 | 40 CFR 52.222(a)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Industry | MD | | Current | 8/7/1995 | 40 CFR 52.222(a)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Reactors | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Synthetic Organic Chemical Polymer and Resin Manufacturing | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Vacuum Producing Devices | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed Neg. Dec - 2 CTGs for Miscellaneous Metal and Plastic Parts Coatings, Table 3—Plastic Parts and Products, and Table 4—Automotive/Transportation and Business Machine Plastic Parts | MD | 4/23/2018 | Current | 7/16/2018 | 40 CFR 52.220(c)(519)(ii)(A)(1) and 52.222(a)(1)(viii) | 2/27/2020 | 85 FR 11812 |
| MD | FND | Fed Neg Dec - 1 CTG for Miscellaneous Metal and Plastic Parts Coatings (EPA–453/R–08–003), Table 6—Motor Vehicle Materials | MD | 10/22/2018 | Current | 12/7/2018 | 40 CFR 52.220(c)(531)(ii)(A)(1) and 52.222(a)(1)(ix) | 2/27/2020 | 85 FR 11812 |
| MD | Title V | Program - Federal Operation Permits: Title V | | | | | 40 CFR 70 Appx. A California (q)(2) | 12/17/2001 | 66 FR 63503 |
| MD | Title V | Program - Federal Operation Permits: Title V | | | Unknown | | 40 CFR 70 Appx. A California (q)(3) | 10/15/2002 | 67 FR 63551 |
| MD | MACT | MACT Delegation (Sections A, F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, AAAA, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH, IIII, JJJJ, KKKK, MMMM, NNNN, OOOO, PPPP, QQQQ, RRRR, SSSS, TTTT,UUUU, VVVV, WWWW, XXXX, YYYY, ZZZZ,AAAAA, BBBBB, CCCCC, DDDDD, EEEEE, FFFFF, GGGGG,HHHHH, IIIII, JJJJJ, KKKKK, LLLLL, MMMMM, NNNNN,PPPPP,QQQQQ, RRRRR, SSSSS,TTTTT,WWWWW,YYYYY, ZZZZZ, BBBBBB, CCCCCC, DDDDDD, EEEEEE, FFFFFF, GGGGGG, HHHHHH, IIIIJJ, LLLLLL, MMMMMM, NNNNNN, OOOOOO, PPPPPP, QQQQQQ, RRRRRR, SSSSSS, TTTTTT, VVVVVV, WWWWWW, XXXXXX, YYYYYY, ZZZZZZ, AAAAAAA, BBBBBBB, CCCCCCC, DDDDDDD, EEEEEEE. | MD | | Current | | | | |
| MD | NESHAP | NESHAPS Delegation (Sections A, C, D, E and M) | SB | | N/A | | | | |
| MD | NSPS | NSPS Delegation (Sections A, D, Da, Db, Dc, E, Ea, Eb, Ec, F, G, H, I, J, Ja, K, Ka, Kb, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, GG, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, VVa, WW, AAA, BBB, DDD, FFF,GGG,GGGa, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUUU, VVV, WWW, AAAA, CCCC, EEEE, IIII, JJJJ, KKKK ) | MD | | Current | | | 4/30/2013 | 78 FR 25185 |
| MD | FND | 19 Source Category FNDs (including Oil & Gas) | MD | 10/28/2019 | (SIP Sub) | 12/20/2019 | | | |

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|---|---|---|---|---|---|---|---|---|---|
| Old SB | 2 | Definitions | SBC | MD 102 | Bef 02/72 | 2/21/1972 | 40 CFR 52.2236(e)(4)(i)(A) | 12/21/1978 | 43 FR 59489 |
| Old SB | 5 (a) | Public Availability of Emissions Data | SBC | None | Bef 02/73 | 7/25/1973 | 40 CFR 52.220(c)(21)(xv)(A) | 6/14/1978 | 43 FR 25684 |
| RC | 51 | Nuisance | RC | MD 402, 07/25/1977 via Res. 94-03 | Bef 02/72 | 2/21/1971 | 40 CFR 52.220(c)(7) | 5/31/1977 | |
| RC | 52 | Particulate Matter - Concentration | | MD 405, 07/25/1977 via Res. 94-03 | Bef 06/72 | | 40 CFR 52.228(b)(1)(iii)(A) | 9/8/1978 | 43 FR 40011 |
| Old SB | 52 A | Particulate Matter - Concentration | SBC | | | 6/19/1972 | 40 CFR 52.220.(c)(1-2) | 9/22/1972 | 34 FR 19812 |
| Old SB | 53A | Specific Air Contaminants | | | | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| RC | 53 | Specific Air Contaminants | | | | 6/6/1977 | 40 CFR 52.220(c)(39)(iv)(C) | 9/8/1978 | 43 FR 40011 |
| Old SB | 53.2 | Sulfur Recovery Units | SBC | | | 6/30/1972 | 40 CFR 52.220.(c)(1-2) | 9/22/1972 | 34 FR 19812 |
| Old SB | 53.3 | Sulfuric Acid Units | SBC | | | 6/30/1972 | 40 CFR 52.220.(c)(1-2) | 9/22/1972 | 34 FR 19812 |
| RC | 54 | Solid Particulate Matter, Weight | RC | MD 405, 07/25/1977 via Res. 94-03 | Bef 06/72 | 6/30/1972 | 40 CFR 52.228(b)(1)(iii)(A) | 9/8/1978 | 43 FR 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 FR3886 |
| 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)(e) | 6/14/1978 | 43 FR 25684 |
| RC | 74 | Vacuum Producing Devices or Systems | RC | Fed Neg Dec12/21/1994 | Bef 06/72 | 6/30/1972 | 40 CFR 52.269(b)(3)(i)(A) | | |
| SC | 101 | Title | RC | 7/1/1993 via Res. 94-03 | Bef 11/77 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 101 | Title | SBC | 7/1/1993 | 12/19/1998 | 3/26/1990 | 40 CFR 52.220(c)(179)(i)(B) | 11/27/1990 | |
| MD | 102 | Definition of Terms | | | | 8/17/2018 | 40 CFR 52.220(c)(520)(i)(A)(1) | 7/2/2019 | 84 FR 31682 |
| MD | 102 | Definition of Terms | | 9/28/2020 | (SIP Sub) | 3/10/2021 | | | |
| MD | 103 | Definition of District Boundaries | | 6/28/1995 | Current | | 40 CFR 52.220(c)(224)(i)(C)(2) | 6/3/1999 | 64 FR 29790 |
| SB | 103 | Definition of Terms (Unknown rule - no record except in FR reference) | SBC | None | Bef 11/77 | 11/4/1977 | 40 CFR 52.236(e)(3)(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)(e)(B) | 10/11/1983 | 48 FR 46046 |
| SC | 108 | Alternate Emission Control Plans | RC | None | 4/6/1990 | 12/31/1990 | 40 CFR 52.220(c)(182)(i)(A)(3) | 8/30/1993 | 58 FR 45445 |
| SC | 109 | Record keeping for Volatile Organic Compound Emissions | RC | None | Bef 09/92 | 9/14/1992 | 40 CFR 52.220(c)(189)(i)(A)(6) | 4/13/1995 | 60 FR 18751 |
| SC | 201 | Permit to Construct | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 201 | Permit to Construct | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 202 | Temporary Permit to Operate | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 202 | Temporary Permit to Operate | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 203 | Permit to Operate | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 203 | Permit to Operate | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 204 | Permit Conditions | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| MD | 204 | Permit Conditions | SBC | 7/25/1977 | G-73 | | | | |
| SC | 205 | Cancellation of Application | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 205 | Cancellation of Application | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 206 | Posting of Permit to Operate | RC | 7/25/1977 via Res.94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 206 | Posting of Permit to Operate | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 207 | Altering or Falsifying of Permit | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 207 | Altering or Falsifying of Permit | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 208 | Permit for Open Burning | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 208 | Permit for Open Burning | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SC | 209 | Transfer and Voiding of Permit | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 209 | Transfer and Voiding of Permit | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 212 | Standards for Approving Permits | RC | 7/25/1977 via Res. 94-03 | 5/1/1987 | 6/9/1987 | 40 CFR 52.220(c)(173)(i)(A)(1) | 2/3/1989 | 54 FR 5448 |
| SB | 212 | Standards for Approving Permits | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 217 | Provision for Sampling and Testing Facilities | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 217 | Provision for Sampling and Testing Facilities | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |

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|---|---|---|---|---|---|---|---|---|---|
| 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 |
| SC | 218 | Stack Monitoring | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SB | 219 | Equipment Not Requiring a Written Permit | SBC | 1/28/2019 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 11/9/1978 | 43 FR 52237 |
| SC | 219 | Equipment Not Requiring a Written Permit Pursuant to Regulation II | RC | 1/28/2019 | 9/4/1981 | 10/23/1981 | 40 CFR 52.220(c)(103)(xviii)(A) | 7/6/1982 | 47 FR 29231 |
| MD | 219 | Equipment Not Requiring a Written Permit | MD | 1/25/2021 | (SIP Sub) | 7/22/2021 | | | |
| SC | 220 | Exemtion, Net Increase in Emissions | RC | 11/25/1991 via Res. 94-03 | 8/7/1981 | 10/23/1981 | 40 CFR 52.220(c)(103)(xviii)(A) | 7/6/1982 | 47 FR 29231 |
| SC | 221 | Plans | RC | None | 1/4/1985 | 11/12/1985 | 40 CFR 52.220(c)(165)(i)(B)(1) | 4/17/1987 | 52 FR 12522 |
| MD | 221 | Federal Operating Permit Requirement | MD | 2/28/2011 | 2/21/1994 | 3/31/1995 | 40 CFR 52.220(c)(216)(i)(A)(2) | 2/5/1996 | 61 FR 4217 |
| MD | 221 | Federal Operating Permit Requirement | MD | 2/28/2011 | (SIP Sub) | 6/21/2011 | | | |
| MD | 222 | Limitation on Potential to Emit | MD | 2/28/2011 | 7/31/1995 | 10/13/1995 | 40 CFR 52.220(c)(225)(i)(H)(1) | 8/31/2004 | 69 FR 53005 |
| MD | 222 | Limitation on Potential to Emit | MD | 2/28/2011 | (SIP Sub) | 6/21/2011 | | | |
| SC | 301.2 | Fee Schedules | RC | None | 6/3/1983 | 7/19/1983 | 40 CFR 52.220(c)(137)(vii)(B) | 10/19/1984 | 49 FR 41028 |
| MD | 315 | Federal Clean Air Act Section 185 Penalty | MD | 10/24/2011 | (SIP Sub) | 12/14/2011 | | | |
| SC | 401 | Visible Emissions | RC | 8/26/2019 | 4/7/1989 | | 40 CFR 52.220(c)(155)(iv)(B) | 1/29/1985 | 50 FR 3906 |
| MD | 401 | Visible Emissions | MD | 8/26/2019 | Sip Sub | | | | |
| SB | 403 | Fugitive Dust | SBC | | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 9/8/1978 | 43 FR 40011 |
| SC | 403 | Fugitive Dust | | | | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| MD | 403 | Fugitive Dust | | 9/28/2020 | | | | | |
| MD | 403.1 | Respirable Particulate Matter in SVPA | | | 11/25/1996 | 3/3/1997 | 40 CFR 52.220(c)(224)(i)(C)(2) | 8/13/2009 | 74 FR 40750 |
| SC | 404 | Particulate Matter, Concentration | RC | 7/25/1977 via Res. 94-03 | 10/5/1979 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 404 | Particulate Matter, Concentration | RC | 7/25/1977 via Res. 94-03 | 10/5/1979 | 2/3/1983 | 40 CFR 52.220(c)(137)(vii)(B) | 10/19/1984 | 49 FR 41028 |
| SB | 404 | Particulate Matter - Concentration | SBC | 7/25/1977 | Current | 11/4/1977 | 40 CFR 52.220(c)(42)(xiii)(A) | 12/21/1978 | 43 FR 52489 |
| SC | 405 | Solid Particulate Matter, Weight | RC | 7/25/1977 via Res. 94-03 | 5/7/1976 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 405 | Solid Particulate Matter, Weight | SBC | 7/25/1977 | Current | 11/4/1977 | 40 CFR 52.220(c)(42)(xiii)(A) | 12/21/1978 | 43 FR 59489 |
| SB | 406 | Specific Contaminants | SBC | 2/20/1979 | 7/25/1977 | | 40 CFR 52.220(c)(42)(xiii)(A) | 12/21/1978 | 43 FR 59489 |
| SC | 407 | Liquid and Gaseous Air Contaminants | RC | 7/25/1977 via Res. 94-03 | 4/2/1982 | 8/6/1982 | 40 CFR 52.220(c)(124)(iv)(A) | 11/10/1982 | 47 FR 50864 |
| SB | 407 | Liquid and Gaseous Air Contaminants | SBC | 7/25/1977 | G-73 | | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SC | 408 | Circumvention | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 408 | Circumvention | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SC | 409 | Combustion Contaminants | RC | 7/25/1977 via Res. 94-03 | 8/7/1981 | 10/23/1981 | 40 CFR 52.220(c)(103)(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 |
| MD | 431 | Sulfur Content of Fuels | MD | 9/28/2020 | (SIP Sub) | 6/10/2021 | | | |
| SB | 431 | Sulfur Content of Fuels | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 9/8/1978 | 43 FR 40011 |
| SC | 431.1 | Sulfur Content of Gaseous Fuels | RC | See MD 431 | 5/6/1983 | 7/19/1983 | 40 CFR 52.220(c)(137)(vii)(B) | 10/19/1984 | 49 FR 41028 |
| SC | 431.2 | Sulfur Content of Liquid Fuels | RC | See MD 431 | Bef 8/80 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 431.3 | Sulfur Content of fossil Fuels | RC | See MD 431 | Bef 8/80 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 432 | Gasoline Specifications | | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 432 | Gasoline Specifications | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(B) | 9/8/1978 | 43 FR 40011 |
| MD | 442 | Usage of Solvents | MD | 2/27/2006 | Current | 10/5/2006 | 40 CFR 52.220(c)(347)(i)(C)(1) | 9/17/2007 | 72 FR 52791 |
| SC | 443 | Labeling of Solvents | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 443 | Labeling of Solvents | | | | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| MD | 444 | Open Fires | | 9/25/2006 | Current | 5/8/2007 | 40 CFR 52.220(c)(350)(B)(1) | 10/31/2007 | 72 FR 61525 |
| MD | 461 | Gasoline Transfer and Dispensing | MD | | | 7/13/1994 | 40 CFR 52.220(c)(198)(i)(E)(1) | 5/3/1995 | 60 FR 21702 |
| MD | 461 | Gasoline Transfer and Dispensing | MD | 1/22/2018 | Current | 5/18/2018 | 40 CFR 52.220(c)(518)(i)(A)(3) | 5/1/2020 | 85 FR 25293 |
| MD | 462 | Organic Liquid Loading | MD | 1/22/2018 | Current | 5/18/2018 | 40 CFR 52.220(c)(518)(i)(A)(4) | 5/1/2020 | 85 FR 25293 |
| MD | 463 | Storage of Organic Liquids | MD | 1/22/2018 | Current | 5/18/2018 | 40 CFR 52.220(c)(518)(i)(A)(5) | 5/1/2020 | 85 FR 25293 |
| MD | 464 | Oil Water Separators | | 6/12/2014 | Current | 11/16/2014 | 40 CFR 52.220(c)(457)(i)(B)(1) | 6/5/2015 | 80 FR 32026 |
| SC | 465 | Vacuum Producing Devices orSystems | RC | Rescinded & Fed. Reg. 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. Reg. Dec 12/21/1994 | Not SIP | 12/29/1994 | 40 CFR 52.222(a)(1)(iii) | 9/11/1995 | 60 FR 47074 |
| SC | 466 | Pumps and Compressors | RC | Rescinded & See 1102 10/26/94 | Bef 12/83 | 12/2/1983 | 40 CFR 52.220(c)(166)(i)(A)(1) | 1/15/1987 | 52 FR 1627 |
| MD | 466 | Pumps and Compressors (Rescinded) | MD | Rescinded & See 1102 10/26/94 | Not SIP | 11/30/1994 | 40 CFR 52.220(c)(39)(ii)(G) | 8/19/1999 | 64 FR 45175 |
| SC | 466.1 | Valves and Flanges | RC | None | 5/2/1980 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 468 | Sulfur Recovery Units | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 468 | Sulfur Recovery Units | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| SC | 469 | Sulfuric Acid Units | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 469 | Sulfuric Acid Units | | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | | |
| MD | 471 | Asphalt Roofing Operations | | 12/21/1994 | Current | 12/22/1994 | 40 CFR 52.220(c)(210)(i)(C)(2) | 2/29/1996 | 61 FR 7706 |
| SC | 472 | Reduction of Animal Matter | RC | 7/25/1977 via Res. 94-03 | G-73 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SB | 472 | Reduction of Animal Matter | SBC | 7/21/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| MD | 473 | Disposal of Liquid and Solid Wastes | SBC | 7/25/1977 | G-73 | 6/6/1977 | 40 CFR 52.220(c)(39)(ii)(C) | 9/8/1978 | 43 FR 40011 |
| MD | 474 | Fuel Burning Equipment - Oxides of Nitrogen | MD | 8/25/1997 | Bef 11/96 | 11/26/1996 | 40 CFR 52.220(c)(254)(i)(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 |

**Rules in the SIP for the MDAQMD**

| Agency | Rule # | Rule Title | Effective Area | Rule Book Version | SIP Version | Submit Date | CFR | FR Date | FR Cite |
|---|---|---|---|---|---|---|---|---|---|
| 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)(iii)(A) | 1/27/1981 | 46 FR 8471 |
| SC | 481 | Spray Coating Operations | RC | 1113, 1114, 1115 & 1116 | 5/5/1978 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| SC | 501 | General | RC | 6/10/2019 | Bef 8/80 | 8/11/1980 | FR Text | 6/9/1982 | 47 FR 25013 |
| MD | 900 | Standards of Performance for New Stationary Sources | MD | 2/25/2019 | Delegated | | | | |
| MD | 1000 | National emissions Standards fro 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 | 10/26/1994 | Current | 11/30/1994 | 40 CFR 52.220(c)(207)(i)(D) | 9/27/1995 | 60 FR 49772 |
| SC | 1102.1 | Perchloroethylene Dry Cleaning Systems | RC | None | 12/7/1990 | 5/31/1991 | 40 CFR 52.220(c)(184)(i)(B)(1) | 3/24/1992 | 57 FR 10136 |
| SC | 1103 | Pharmaceuticals and Cosmetics Manufacturing Operation | RC | None | 4/6/1980 | 4/23/1980 | 40 CFR 52.220(c)(69)(iii) | 7/8/1982 | 47 FR 29668 |
| MD | 1103 | Cutback and Emulsified Asphalt | MD | 12/21/1994 | Current | 12/22/1994 | 40 CFR 52.220(c)(207)(i)(C)(1) | 2/5/1996 | 61 FR 4215 |
| SC | 1104 | Wood Flat Stock Coating Operations (SC Amended 8/2/91) | | None | 3/1/1991 | 10/25/1991 | 40 CFR 52.220(c)(186)(i)(C)(1) | 6/23/1994 | 59 FR 32354 |
| MD | 1104 | Organic Solvent Degreasing Operations | MD | 4/23/2018 | Current | 7/16/2018 | 40 CFR 52.220(c)(519)(i)(A)(1) | 7/2/2019 | 84 FR 31682 |
| SC | 1105 | Fluid Catalytic Cracking Units Oxides of Nitrogen (SC Adopted 9/8/84) | R/ | None | 9/8/1984 | 2/6/1985 | 40 CFR 52.220(c)(159)(v)(C) | 7/12/1990 | 55 FR 28625 |
| MD | 1106 | Marine & Pleasure Craft Coating Operations | MD | 10/24/2016 | Current | Aft 10/2016 | 40 CFR 52.220(c)(498)(i)(B)(1) | 2/12/2018 | 83 FR 5940 |
| SC | 1107 | Miscellaneous Metal Parts, Products and Coatings Operations. | RC | None | 9/6/1991 | 5/13/1993 | 40 CFR 52.220(c)(193)(i)(A)(1) | 12/20/1993 | 58 FR 66285 |
| SC | 1108 | Cutback Asphalt | RC | None | 2/1/1985 | 4/12/1985 | 40 CFR 52.220(c)(160)(i)(E)(1) | 7/12/1990 | 55 FR 28624 |
| SC | 1108.1 | Emulsified 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 | | Bef 7/84 | 7/10/1984 | 40 CFR 52.220(c)(155)(iv)(A) | 1/24/1985 | 50 FR 3339 |
| MD | 1113 | Architectural Coatings | MD | 4/23/2012 | 4/23/2012 | 2/6/2013 | 40 CFR 52.220(c)(428)(i)(C)(1) | 1/3/2014 | 79 FR 365 |
| MD | 1113 | Architectural Coatings | MD | 10/26/2020 | (SIP Sub) | 6/10/2021 | | | |
| MD | 1114 | Wood Products Coating Operations | MD | 8/24/2020 | Current | 11/18/2020 | 40 CFR 52.220(c)(558)(i)(a)(1) | 7/28/2021 | 86 FR 40335 |
| SC | 1115 | Motor Vehicle Assembly and Component Coating Operations | RC | None | 3/6/1992 | 9/14/1992 | 40 CFR 52.220(c)(189)(i)(A)(1) | 12/20/1993 | 58 FR 66282 |
| MD | 1115 | Metal Parts & Products Coating Operations | | | | 5/23/2018 | 40 CFR 52.220(c)(518)(i)(A)(2) | 2/27/2020 | 85 FR 11812 |
| MD | 1115 | Metal Parts & Products Coating Operations | MD | 6/8/2020 | (SIP Sub) | 5/23/2018 | | 5/20/2021 | 86 FR 27341 |
| MD | 1116 | Automative Refinishing Operations | MD | 8/23/2010 | Current | 4/5/2011 | 40 CFR 52.220(c)(388)(i)(F)(1) | 8/19/2012 | 77 FR 47536 |
| SC | 1117 | Emissions of Oxides of Nitrogen from Glass Melting Furnaces | RC | None | SC 1/6/1984 | 12/3/1984 | 40 CFR 52.220(c)(159)(v)(D) | 7/12/1990 | 55 FR 28624 |
| MD | 1117 | Graphic Arts | MD | | | 7/20/2010 | 40 CFR 52.220(c)(381)(i)(H)(1) | 3/1/2012 | 77 FR 12495 |
| MD | 1117 | Graphic Arts | MD | 8/24/2020 | (SIP Sub) | 11/17/2020 | | | |
| MD | 1118 | Aerospace Vehicle Parts & Products Coating Operations | MD | | | 4/21/2016 | 40 CFR 52.220(c)(485)(i)(B)(1) | 6/21/2017 | 82 FR 28240 |
| MD | 1118 | Aerospace Assembly, Reqork and Component Manufacturing Operations | MD | 6/8/2020 | (SIP Sub) | 11/17/2020 | | | |
| SC | 1119 | Petroleum Coke Calcining Operations Oxides of Sulfur | RC | None | 3/2/1979 | 7/25/1980 | 40 CFR 52.220(s)(88)(iii)(A) | 9/28/1981 | 46 FR 47451 |
| SC | 1120 | Asphalt Pavement Heaters | RC | None | 8/4/1978 | 7/25/1980 | 40 CFR 52.220(c)(65)(ii) | 9/28/1981 | 46 FR 47451 |
| SC | 1121 | Control of Nitrogen Oxides from Residential Type Natural Gas Fired Water Heaters | | | 12/1/1978 | 4/2/1980 | 40 CFR 52.220(c)(67)(i)(B) | 9/28/1981 | 46 FR 47451 |
| SC | 1122 | Solvent Metal Cleaners (Degreasers) | | None | 7/8/1983 | | | | |
| SC | 1123 | Refinery Process Turnaround | RC | None | SC 12/7/1990 | 5/13/1991 | 40 CFR 52.220(c)(184)(i)(B)(2) | 8/11/1992 | 57 FR 35758 |
| SC | 1124 | Aerospace Assembly and Component Coating Operations | RC | None | 1/6/1984 | 4/19/1984 | 40 CFR 52.220(c)(154)(vii)(A) | 1/24/1985 | 50 FR 3339 |
| SC | 1125 | Metal Container, Closure and Coil Coating Operations | RC | None | SC 8/2/1991 | 5/13/1993 | 40 CFR 52.220(c)(189)(i)(A)(4) | 4/14/1994 | 59 FR 17898 |
| SC | 1126 | Magnet Wire Coating Operations | RC | None | SC 3/6/1992 | 9/14/1992 | 40 CFR 52.220(c)(189)(i)(A)(2) | 12/20/1993 | 58 FR 66286 |
| MD | 1126 | Municipal Solid Waste Landfills | MD | 8/28/2000 | Not SIP | 12/20/200 | 40 CFR 60.23 | | |
| SC | 1128 | Paper, Fabric and Film Coating Operations | RC | None | SC 2/7/1992 | 9/14/1992 | 40 CFR 52.220(c)(189)(i)(A)(3) | 12/20/1993 | 58 FR 66287 |
| SC | 1130 | Graphic Arts | RC | None | Bef 5/1993 | 5/13/1993 | 40 CFR 52.220(c)(193)(i)(A)(2) | 4/14/1994 | 59 FR 17698 |
| SC | 1136 | Wood Furniture and Cabinet Coatings | RC | None | Bef 5/92 | 5/13/1992 | 40 CFR 52.220(c)(189)(i)(A)(4) | 4/14/1994 | 59 FR 17698 |
| SC | 1140 | Abrasive Blasting | RC | | 2/1/1980 | 4/2/1980 | 40 CFR 52.220(c)(67)(i)(B) | 9/28/1981 | 46 FR 47451 |
| SC | 1141 | Control of Volatile Organic Compound Emissions from Resin Manufacturing | RC | None | SC 4/3/1992 | 9/19/1992 | 40 CFR 52.220(c)(189)(i)(A)(3) | 12/20/1993 | 58 FR 66286 |
| SC | 1141.1 | Coatings and Ink Manufacturing | RC | None | 11/4/1983 | 3/14/1984 | 40 CFR 52.220(c)(153)(vii)(B) | 1/24/1985 | 50 FR 3339 |
| SC | 1141.2 | Surfactant Manufacturing | RC | None | SC 7/6/1984 | 10/19/1984 | 40 CFR 52.220(c)(156)(vii)(A) | 1/15/1987 | 52 FR 1627 |
| SC | 1142 | Marine Tank Vessel Operations | RC | None | | 1/28/1992 | 40 CFR 52.220(c)(187)(i)(C)(1) | | |
| SC | 1145 | Plastic, Rubber and Glass Coatings | RC | None | SC 1/10/1992 | 1/11/1993 | 40 CFR 52.220(c)(191)(i)(A)(1) | 12/20/1993 | 58 FR 66286 |
| SC | 1148 | Thermally Enhanced Oil Recovery Wells | RC | None | Bef 10/1983 | 10/27/1983 | 40 CFR 52.220(c)(148)(vi)(B) | ?? | ?? |
| SC | 1151 | Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations | RC | None | Bef 5/13/1993 | 5/13/1993 | 40 CFR 52.220(c)(193)(i)(A)(1) | 12/20/1993 | 58 FR 66286 |
| SC | 1153 | Commercial Bakery Ovens | RC | None | SC 1/4/1991 | 5/13/1991 | 40 CFR 52.220(c)(184)(i)(B)(3) | 9/29/1993 | 58 FR 50850 |
| MD | 1157 | Boilers and Process Heaters | MD | 1/22/2018 | 5/19/1997 | 8/1/1997 | 40 CFR 52.220(c)(248)(i)(D) | 4/20/1999 | 64 FR 19277 |
| MD | 1157 | Boilers and Process Heaters | MD | 1/22/2018 | (SIP Sub) | 5/23/2018 | | | |
| SC | 1158 | Storage, Handling and Transport of Petroleum Coke | RC | None | SC Bef 5/93 | 3/14/1984 | 40 CFR 52.220(c)(153)(vii)(B) | 1/15/1987 | 52 FR 1627 |
| MD | 1158 | Electric Power Generating Facilities | MD | 6/26/2017 | 8/25/1997 | 3/10/1998 | 40 CFR 52.220(c)(254)(i)(H)(2) | 7/20/1999 | 64 FR 38832 |
| MD | 1158 | Electric Power Generating Facilities | MD | 6/26/2017 | (SIP Sub) | 11/13/2017 | | | |
| SC | 1159 | Nitric Acid Units - Oxides of Nitrogen | RC | None | SC 12/6/1985 | 2/10/1986 | 40 CFR 52.220(c)(168)(I)(H) | 7/12/1990 | 55 FR 28622 |
| MD | 1159 | Stationary Gas Turbines | MD | 9/28/2009 | Current | 5/17/2010 | 40 CFR 52.220(c)(379)(i)(E)(1) | 10/25/2012 | 77 FR 65133 |

**Rules in the SIP for the MDAQMD**

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|---|---|---|---|---|---|---|---|---|---|
| MD | 1160 | Internal Combustion Engines | MD | 1/22/2018 | Current | 5/23/2018 | 40 CFR 52.220(c)(518)(i)(A)(7) | 9/10/2021 | 86 FR 50643 |
| MD | 1161 | Portland Cement Kilns | MD | | | 6/18/2002 | 40 CFR 52.220(c)(300)(i)(A)(1) | 2/27/2003 | 68 FR 9015 |
| MD | 1161 | Portland Cement Kilns | MD | 1/22/2018 | (SIP Sub) | 5/23/2018 | | | |
| MD | 1162 | Polyester Resin Operations | MD | 1/22/2018 | 8/27/2007 | 3/7/2008 | 40 CFR 52.220(c)(354)(i)(B)(1) | 11/24/2008 | 73 FR 70883 |
| MD | 1162 | Polyester Resin Operations | MD | 1/22/2018 | Current | 5/23/2018 | 40 CFR 52.220(c)(519)(i)(A)(1) | 2/27/2020 | 85 FR 11812 |
| SC | 1164 | Semiconductor Manufacturing Operations | RC | None | 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 |
| MD | 1168 | Adhesive & Sealant Applications | MD | 4/27/2020 | (SIP Sub) | 7/23/2020 | | | |
| SC | 1171 | Solvent Cleaning | RC | None | SC 8/2/1991 | 6/19/1992 | 40 CFR 52.220(c)(188)(i)(C)(1) | 12/20/1993 | 58 FR 66285 |
| SC | 1173 | Fugitive Emissions of Volatile Organic Compounds | | None | 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 | 3/22/2021 | (SIP Sub) | 7/22/2021 | | | |
| MD | 1301 | Definitions | MD | | 3/25/1996 | 7/23/1996 | 40 CFR 52.220(c)(239)(i)(A)(1) | 11/13/1996 | 61 FR 58133 |
| MD | 1301 | Definitions | MD | 3/22/2021 | (SIP Sub) | 7/22/2021 | | | |
| MD | 1302 | Procedure | MD | | 3/25/1996 | 7/23/1996 | 40 CFR 52.220(c)(239)(i)(A)(1) | 11/13/1996 | 61 FR 58133 |
| MD | 1302 | Procedure | | 3/22/2021 | (SIP Sub) | 7/22/2021 | | | |
| MD | 1303 | Requirements | MD | | 3/25/1996 | 7/23/1996 | 40 CFR 52.220(c)(239)(i)(A)(1) | 11/13/1996 | 61 FR 58133 |
| MD | 1303 | Requirements | MD | 3/22/2021 | (SIP Sub) | 7/22/2021 | | | |
| MD | 1304 | Emissions Calculations | MD | | 3/25/1996 | 7/23/1996 | 40 CFR 52.220(c)(239)(i)(A)(1) | 11/13/1996 | 61 FR 58133 |
| MD | 1303 | Emissions Calculations | MD | | (SIP Sub) | 7/22/2021 | | | |
| MD | 1305 | Emissions Offsets | MD | | 3/25/1996 | 7/23/1996 | 40 CFR 52.220(c)(239)(i)(A)(1) | 11/13/1996 | 61 FR 58133 |
| MD | 1305 | Emissions Offsets | MD | 3/22/2021 | (SIP Sub) | 7/22/2021 | | | |
| MD | 1306 | Electric Energy Generating Facilities | | | 3/25/1996 | 7/23/1996 | 40 CFR 52.220(c)(239)(i)(A)(1) | 11/13/1996 | 61 FR 58133 |
| MD | 1306 | Electric Energy Generating Facilities | | 3/22/2021 | (SIP Sub) | 7/22/2021 | | | |
| MD | 1310 | Federal Major Facilities and Federal Major Modifications | | Rescinded 3/22/21 | (SIP Sub) | 7/22/2021 | | | |
| MD | 1400 | General (Emission Reduction Credits) | MD | 6/28/1995 | Current | 8/10/1995 | 40 CFR 52.220(c)(224)(i)(C) | 1/22/1997 | 62 FR 3215 |
| MD | 1401 | Definitions (Emissions Reduction Credits) | MD | 6/28/1995 | Current | 8/10/1995 | 40 CFR 52.220(c)(224)(i)(C) | 1/22/1997 | 62 FR 3215 |
| MD | 1402 | Emission Reduction Credits Registry | MD | | 6/28/1995 | 8/10/1995 | 40 CFR 52.220(c)(224)(i)(C) | 1/22/1997 | 62 FR 3215 |
| MD | 1404 | Emission Reduction Credit Calculations | MD | 6/28/1995 | Current | 8/10/1995 | 40 CFR 52.220(c)(224)(i)(C) | 1/22/1997 | 62 FR 3215 |
| MD | 1520 | Control of Toxic Air Contaminants From Existing Sources | MD | 3/25/2019 | (SIP Sub) | | | | |
| MD | 1600 | Prevention of Significant Deterioration | MD | 3/22/2021 | (SIP Sub) | 7/22/2021 | | | |
| MD | 2001 | Transportation Conformity | MD | 2/22/1995 | ?? | | | | |
| MD | 2002 | General Federal Actions Conformity | MD | 10/26/1994 | Current | 5/10/1996 | 40 CFR 52.220(c)(231)(i)(C)(1) | 4/23/1999 | 64 FR 19916 |
| MD | FND | Fed. Neg. Dec. - Asphalt Air Blowing | MD | | Current | 12/20/1994 | 40 CFR 52.222(a)(1)(ii) | 9/11/1995 | 60 FR 47074 |
| MD | FND | Fed. Neg. Dec. - Air Oxidation Process - SOCMI | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Chemical Processing & Manufacturing | RC | 5/25/1994 via Res. 94-03 | Unknown | | | | |
| MD | FND | Fed. Neg. Dec. - Chemical Processing & Manufacturing | SBC | 5/25/1994 | Current | 12/29/1994 | | 1/31/1995 | 60 FR 38 |
| MD | FND | Fed. Neg. Dec. - Equipment Leaks from Natural Gas/Gasoline Processing Plants | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Fugitive Emissions From Synthetic Organic chemical Polymer and Resin manufacturing Equipment | MD | 8/23/2010 | Current | 10/22/2010 | 40 CFR 52.222(a)(1)(vi) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Industrial Wastewater | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Large Petroleum Dry Cleaners | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Leaks from Petroleum Refinery Equipment | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Manufacture of High-Density Polyethylene, Polypropylene, and Polystyrene Resins | MD | 8/23/2010 | Current | 10/22/2010 | 40 CFR 52.222(a)(1)(vi) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment | RC | 5/25/1994 via Res. 94-03 | Unknown | | | | |
| MD | FND | Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment | SBC | 5/25/1994 | Current | 7/13/1994 | 40 CFR 52.222(a)(1)(i) | 1/31/1995 | 60 FR 38 |
| MD | FND | Fed. Neg. Dec. - Offset Lithography | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Orchard & Citrus Heaters | MD | 6/24/1996 | ?? | | | | |
| MD | FND | Fed. Neg. Dec. - Petroleum Refinery Equipment | MD | 8/23/2010 | Current | 10/22/2010 | 40 CFR 52.222(a)(1)(vi) | 5/20/2011 | 76 FR 29153 |

**Rules in the SIP for the MDAQMD**

| Agency | Rule # | Rule Title | Effective Area | Rule Book Version | SIP Version | Submit Date | CFR | FR Date | FR Cite |
|---|---|---|---|---|---|---|---|---|---|
| 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. - Pheumatic Rubber Tire Manufacturing | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec - Polymer Manufacturing SOCMI and Polymer manufacturing Equipment Leaks | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Process Unit Turnarounds | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Reactor Processes and Distillation Operations in SOCMI | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Ship Building | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Cans | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Coils | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Fabrics | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Large Appliances | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Surface Coating of Magnet Wire | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed Neg. Dec. - Surface Coating Operations at Automotive and Light Duty Truck Assembly Plants | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Synthesized Pharmaceutical Products | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Batch Processing | MD | | Current | 8/7/1995 | 40 CFR 52.222(a)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Industry | MD | | Current | 8/7/1995 | 40 CFR 52.222(a)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Reactors | MD | | Current | 8/7/1995 | 40 CFR 52.222(A)(1)(iv) | 11/1/1996 | 61 FR 56474 |
| MD | FND | Fed. Neg. Dec. - Synthetic Organic Chemical Polymer and Resin Manufacturing | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed. Neg. Dec. - Vacuum Producing Devices | MD | 1/22/2007 | Current | 7/11/2007 | 40 CFR 52.222(a)(1)(v) | 5/20/2011 | 76 FR 29153 |
| MD | FND | Fed Neg. Dec - 2 CTGs for Miscellaneous Metal and Plastic Parts Coatings, Table 3—Plastic Parts and Products, and Table 4—Automotive/Transportation and Business Machine Plastic Parts | MD | 4/23/2018 | Current | 7/16/2018 | 40 CFR 52.220(c)(519)(ii)(A)(1) and 52.222(a)(1)(viii) | 2/27/2020 | 85 FR 11812 |
| MD | FND | Fed Neg Dec - 1 CTG for Miscellaneous Metal and Plastic Parts Coatings (EPA–453/R–08–003), Table 6—Motor Vehicle Materials. | MD | 10/22/2018 | Current | 12/7/2018 | 40 CFR 52.220(c)(531)(ii)(A)(1) and 52.222(a)(1)(ix) | 2/27/2020 | 85 FR 11812 |
| MD | Title V | Program - Federal Operation Permits: Title V | | | | | 40 CFR 70 Apx. A California (q)(2) | 12/17/2001 | 66 FR 63503 |

# APPENDIX C
## Specific Federal Requirements

## Section C1:
## 40 CFR 60, Subpart A, NSPS General Provisions & Subpart Y, NSPS for Coal Preparation Plants and Processing Plants

§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.

# Section C1:
# 40 CFR 60, Subpart A, NSPS General Provisions & Subpart OOO, NSPS for Coal Preparation Plants and Processing Plants
# Summary of Applicable Requirements

| Citation | Requirement | MCC Applicability |
|---|---|---|
| *NSPS Subpart A, General Provisions (60.1-60.19)* | | |
| §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 plans | Yes |
| §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(a)(7) | Notification of COMS data use in place of observations | No |
| §60.7(b) | Recordkeeping for startup, shutdown, malfunction of affected unit or control device | Yes |
| §60.7(c) | CEMS performance report and excess emissions 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 | Performance tests | Yes |
| §60.9 | Availability of information | Yes |
| §60.10 | State authority | Yes |
| §60.11(a) | Compliance with standards other than opacity | No |
| §60.11(b) | Compliance with opacity standard | Yes |
| §60.11(c) | Exemption during startup, shutdown, and malfunction periods | Yes |
| §60.11(d) | Maintain proper operation at all times, including during startup, shutdown, and malfunction periods | Yes |
| §60.11(e) | Initial opacity observation | Yes |
| §60.11(f) | Specific subpart requirement governs | Yes |
| §60.12 | Circumvention | Yes |
| §60.13 | Monitoring requirements | No |
| §60.14 | Modification | Yes, in case of modification |
| §60.15 | Reconstruction | Yes, in case of reconstruction |
| §60.16 | Priority list | No |
| §60.17 | Incorporations by reference | Yes |
| §60.18 | General control device and work practice requirements (flares) | No |
| §60.19 | General notification and reporting requirements | Yes |

| Citation | Requirement | MCC Applicability |
|---|---|---|
| *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(a) and (b) | Standards for PM | No |
| §60.252(c) | Standards for opacity | Yes |
| §60.253 | Monitoring of operations | No |
| §60.254(a) | General testing requirements | Yes |
| §60.254(b)(1) | Test methods and procedures for PM | No |
| §60.254(b)(2) | Test methods and procedures for opacity | Yes |
| §60.255 | Performance tests and other compliance requirements | Yes |
| §60.256 | Continuous monitoring requirements | No |
| §60.257 | Test methods and procedures | Yes |
| §60.258 | Reporting and recordkeeping | Yes |

# Section C2:
# 40 CFR 60, Subpart A, NSPS General Provisions & Subpart OOO, NSPS for Nonmetallic Mineral Processing Plants

New Source Performance Standard (NSPS) Subpart OOO applies to Nonmetallic Mineral Processing Plants that can process more than 25 tons per hour constructed or modified after August 31, 1983. Subpart OOO regulates emissions of particulate matter in an effort to control and reduce emissions to the area surrounding the applicable source. Any source subject to an NSPS subpart is also subject to the general requirements of the NSPS program contained in Subpart A. This attachment lists the applicable requirements of these subparts to the MCC sand plant.

## Stack Emissions Requirements – Other Than Individual Bin Vents

§60.672(a)(1) and §60.672(f): Particulate Matter Emission Limit

- Limit stack particulate matter ($PM_{10}$) emissions to 0.022 gr/dscf for any transfer point for belt conveyors or any other affected facility, including multiple storage bins with combined stack emissions (not including baghouses that control emissions only from an individual enclosed storage bin).

§60.672(a)(2) and §60.672(f): Opacity Limit

- Limit stack emission opacity to 7% for any transfer point for belt conveyors or any other affected facility, including multiple storage bins with combined stack emissions.

§60.8 and §60.675: Initial Compliance Testing

- Perform initial compliance testing within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup and at such other times as may be required by the Administrator under Section 114 of the Clean Air Act. Conduct test under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. Use EPA Method 5 or Method 17 to determine compliance with the $PM_{10}$ standard and use EPA Method 9 to determine compliance with opacity standard.

    - Particulate Matter Testing: The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121°C (250°F), to prevent water condensation on the filter.
    - Opacity Testing – Duration: For multiple storage bins with combined stack emissions, the minimum total time of observations shall be 3 hours (30 6-minute averages). The duration may be reduced from 3 hours to 1 hour if there are no individual readings greater than the opacity limit and there are no more than 3 readings greater than the opacity limit for the 1-hour period.
    - Opacity Testing – Method: The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). The observer shall, when possible,

select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed. For affected facilities using wet dust suppression for particulate matter control, the spray sometimes generates a visible mist. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

- Initial Testing Notification Requirement: A 30-day notice is required prior to the initial performance test. If, after 30 days' notice for an initially scheduled performance test, there is a delay in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

# Section C2:
# 40 CFR 60, Subpart A, NSPS General Provisions & Subpart OOO, NSPS for Nonmetallic Mineral Processing Plants

## Stack Emissions Requirements – Individual Bin Vents

§60.672(f): Opacity Limit – Stack Emissions – Individual Storage Bins

- Limit stack emission opacity to 7% for any baghouse that controls emissions from only an individual enclosed storage bin

§60.8 and §60.675: Initial Compliance Testing:

- Perform initial compliance testing within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup and at such other times as may be required by the Administrator under Section 114 of the Clean Air Act. Conduct test under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. Use EPA Method 9 to determine compliance with opacity standard.

    - Opacity Testing – Duration: For baghouses that control emissions only from an individual enclosed storage bin, the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages).
    - Opacity Testing – Method: The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed. For affected facilities using wet dust suppression for particulate matter control, the spray sometimes generates a visible mist. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
    - Initial Testing Notification Requirement: A 30-day notice is required prior to the initial performance test. If, after 30 days' notice for an initially scheduled performance test, there is a delay in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

# Section C2:
# 40 CFR 60, Subpart A, NSPS General Provisions & Subpart OOO, NSPS for Nonmetallic Mineral Processing Plants

## Fugitive Emissions Requirements

§60.672(b): Opacity Limit – Fugitive Emissions – Transfer Points

- Limit fugitive emission opacity to 10% for any transfer point on belt conveyors or any other affected facility

§60.672(c): Opacity Limit – Fugitive Emissions – Uncontrolled Crusher

- Limit fugitive emission opacity to 15% from any crusher at which a capture system is not used.

§60.672(d): Truck Dumping

- Truck dumping is exempt from above limits

§60.8 and §60.675: Initial Compliance Testing:

- Perform initial compliance testing within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup and at such other times as may be required by the Administrator under Section 114 of the Clean Air Act. Conduct test under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. Use EPA Method 9 to determine compliance with opacity standard.

    - Opacity Testing – Duration: For transfer points on belt conveyors and any other affected facility, the minimum total time of observations shall be 3 hours (30 6-minute averages). The duration may be reduced from 3 hours to 1 hour if there are no individual readings greater than the opacity limit and there are no more than 3 readings greater than the opacity limit for the 1-hour period.
    - Opacity Testing – Method: The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed. For affected facilities using wet dust suppression for particulate matter control, the spray sometimes generates a visible mist. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
    - Initial Testing Notification Requirement: A 30-day notice is required prior to the initial performance test. If, after 30 days' notice for an initially scheduled performance test, there is a delay in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

# Section C2:
# 40 CFR 60, Subpart A, NSPS General Provisions & Subpart OOO, NSPS for Nonmetallic Mineral Processing Plants

## General Requirements

§60.7(a)(4): General Notification Requirements
- Notify the Administrator of planned changes to the operation or equipment.

§60.7(b): Startup, Shutdown, & Malfunction Recordkeeping Requirements
- Keep records of the occurrence and duration of any startup, shutdown, or malfunction in operation.

§60.11(c): Startup, Shutdown, & Malfunction Opacity Exemption
- The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction.

§60.11(d): General Maintenance and Operation Requirements
- 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.

§60.676(a): Equipment Replacement Reporting Requirement
- Submit required information in case of equipment replacement.

§60.676 (f): Test Performance Results Reporting Requirement
- Submit a written report of all performance tests conducted to demonstrate compliance with the $PM_{10}$ and opacity standards.

§60.676 (h): Anticipated Startup Date Reporting Requirement Exemption
- The requirement for notification of the anticipated date of initial startup is waived.

§60.676 (i): Actual Startup Date Reporting Requirement
- Notify the Administrator of the actual date of initial startup.

# Section C2:
# 40 CFR 60, Subpart A, NSPS General Provisions & Subpart OOO, NSPS for Nonmetallic Mineral Processing Plants
# Summary of Applicable Requirements

| Citation | Requirement | MCC Applicability |
|---|---|---|
| *NSPS Subpart A, General Provisions (§60.1-60.19)* | | |
| §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 plans | Yes |
| §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(a)(7) | Notification of COMS data use in place of observations | No |
| §60.7(b) | Recordkeeping for startup, shutdown, malfunction of affected unit or control device | Yes |
| §60.7(c) | CEMS performance report and excess emissions 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 | Performance tests | Yes |
| §60.9 | Availability of information | Yes |
| §60.10 | State authority | Yes |
| §60.11(a) | Compliance with standards other than opacity | Yes |
| §60.11(b) | Compliance with opacity standard | Yes |
| §60.11(c) | Exemption during startup, shutdown, and malfunction periods | Yes |
| §60.11(d) | Maintain proper operation at all times, including during startup, shutdown, and malfunction periods | Yes |
| §60.11(e) | Initial opacity observation | Yes |
| §60.11(f) | Specific subpart requirement governs | Yes |
| §60.12 | Circumvention | Yes |
| §60.13 | Monitoring requirements | No |
| §60.14 | Modification | Yes, in case of modification |
| §60.15 | Reconstruction | Yes, in case of reconstruction |
| §60.16 | Priority list | No |
| §60.17 | Incorporations by reference | Yes |
| §60.18 | General control device and work practice requirements | No |
| §60.19 | General notification and reporting requirements | Yes |

# Section C2:
# 40 CFR 60, Subpart A, NSPS General Provisions & Subpart OOO, NSPS for Nonmetallic Mineral Processing Plants
# Summary of Applicable Requirements

| Citation | Requirement | MCC Applicability |
|---|---|---|
| *NSPS Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants (§60.270-60.676)* | | |
| §60.670 | Applicability and designation of affected facility | Yes |
| §60.671 | Definitions | Yes |
| §60.672(a) | Standards 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 |
| §60.673 | Reconstruction | Yes, in case of reconstruction |
| §60.674 | Pressure and flow monitoring requirements for wet scrubber | No |
| §60.675 | Test method and procedures for PM and opacity | Yes |
| §60.676(a) | Equipment replacement report | Yes |
| §60.676(b) | Periodic inspection for wet scrubber | No |
| §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 |
| §60.676(k) | Notification and reports mailing location | Yes |

## Sections C3-C10:
## 40 CFR 60, Subpart A, NESHAP General Provisions & 40 CFR 63, Subpart LLL, NESHAP for Portland Cement Manufacturing Industry

National Emission Standards for Hazardous Air Pollutants Subpart LLL applies to equipment (e.g., kilns, clinker coolers, finish mills, etc.) associated with the Portland Cement Manufacturing Industry. Subpart LLL regulates emissions of particulate matter, trace heavy metal emissions, and dioxins/furans in an effort to reduce health risks to areas surrounding the applicable source. Any source subject to an NESHAP subpart is also subject to the general requirements of the NSPS program contained in Subpart A. Sections C3-C10 list the applicable requirements of these subparts to the MCC facility.

# Section C3:
# 40 CFR 60, Subpart A, NESHAP General Provisions & 40 CFR 63, Subpart LLL, NESHAP for Portland Cement Manufacturing Industry
# Kiln Requirements

**Requirements Currently in Effect and Ongoing after September 2015:**

§63.1343(b)(1): Dioxin/Furan Emission Limit

- Limit D/F emissions to $8.7x10^{-11}$ grains (TEQ) per dscf of exhaust gases @ 7% O2, or $1.7x10^{-10}$ grains (TEQ) per dscf of exhaust gases @ 7% $O_2$ for temperatures below 400 degrees Fahrenheit.

§63.1346(a)&(b): Baghouse Temperature Limit

- Limit temperature at kiln baghouse inlet to values measured during D/F performance test (with raw mill on and off, respectively).

§63.1349(b)(3)(i)&(ii): Initial Performance Test – D/F

- Conduct an initial performance test for D/F using EPA Method 23. Minimum 3 separate runs. Minimum sample volume 90 dscf PMCD inlet temperature must be monitored. Test with raw mill on and raw mill off, separately.

§63.1349(c): Continuing Performance Tests – D/F

- Repeat performance test for D/F every 30 months.

§63.1350(g)(1) through (g)(5): Continuous Temperature Monitor – Installation

- 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).

§63.1350(g)(1)(iii): Continuous Temperature Monitor - Calibration

- Calibrate thermocouples and/or temperature sensors every 3 months.

§63.8(c): CMS Installation

- Follow requirements for CMS installation and identify out-of-control periods for temperature monitor.

§63.8(d): CMS QC Program

- Develop a CMS QC program for temperature monitor.

§63.8(e): CMS QC Performance Evaluation

- Conduct a CMS performance evaluation for the temperature monitor.

§63.1354(b)(9) & §63.10(c): Semiannual Temperature Monitoring Report and Recordkeeping

- Submit semiannual summary report and keep records of gas temperature monitoring and recording device.

**General Requirements:**

§63.1348(c): Continuing Performance Tests – Feed or Fuel Change
- 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.

§63.6(e)(3): SSM Plan
- Develop startup, shutdown, and malfunction (SSM) plan.

§63.1347: O&M Plan
- Prepare an operations and maintenance (O&M) plan.

§63.1347(i): Annual Inspection – Combustion System
- Perform annual inspection of the components of the combustion system.

§63.1353(b)(2) & §63.9(e): Performance Test Notification Requirements
- Notify administrator of performance test and opacity observation at least 60 calendar days before scheduled test data.

§63.1353(b)(5) & 63.9(h): Performance Test Results (Compliance Status) Notification Requirements
- Notification of compliance status within 30 or 60 days after performance test completed.

§63.1354(b)(1) & §63.10(d)(2): Reporting Requirements – Test Results
- Submit results of performance test within 60 days after completion of test.

§63.1354(b)(9) & §63.1354(c) & §63.10(d)(5)(i): Semiannual Malfunction Report
- 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.

§63.10(d)(5)(ii): Deviation Reporting
- Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

§63.1355(a) & (b) & §63.10(b) & (c): Recordkeeping Requirements
- 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 and temperature CMS records
  - CMS records showing compliance

- Semiannual reports and other reports

**Specific Requirements:**

§63.1343(b)(1): Particulate Matter Emission Limit

- Limit PM emissions to 0.07 lb/ton of clinker.

§63.1349(b)(1): Initial Performance Test – PM

- Conduct an initial performance test for PM using EPA Method 5 or 5I. 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 of clinker.

§63.1350(b)(1): Continuing Performance Tests – PM

- Repeat performance test for PM annually.

# Section C4:
# 40 CFR 60, Subpart A, NESHAP General Provisions & 40 CFR 63, Subpart LLL, NESHAP for Portland Cement Manufacturing Industry
# Clinker Cooler Requirements

**General Requirements:**

§63.6(e)(3): SSM Plan
- Develop startup, shutdown, and malfunction (SSM) plan.

§63.1347: O&M Plan
- Prepare an operations and maintenance (O&M) plan.

§63.1353(b)(2) & §63.9(e): Performance Test Notification Requirements
- Notify administrator of performance test and opacity observation at least 60 calendar days before scheduled test date.

§63.1353(b)(5) & 63.9(h): Performance Test Results (Compliance Status) Notification Requirements
- Notification of compliance status within 60 days after performance test completed.

§63.1354(b)(1) & §63.10(d)(2): Reporting Requirements – Test Results
- Submit results of performance test observations within 60 days after completion of test.

§63.1354(b)(9) & §63.1354(c) & §63.10(d)(5)(i): Semiannual Malfunction Report
- 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.

§63.10(d)(5)(ii): Deviation Reporting
- Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

§63.1355(a) & (b) & §63.10(b) & (c): Recordkeeping Requirements
- 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
  - CMS records showing compliance
  - Reports

**Specific Requirements:**

§63.1343(b)(1): Particulate Matter Emission Limit

- Limit PM emissions to 0.07 lb/ton of clinker.

§63.1349(b)(1): Initial Performance Test – PM

- Conduct an initial performance test for PM using EPA Method 5 or 5I. 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 of clinker.

§63.1350(b)(1): Continuing Performance Tests – PM

- Repeat performance test for PM annually.

# Section C5:
# 40 CFR 60, Subpart A, NESHAP General Provisions & 40 CFR 63, Subpart LLL, NESHAP for Portland Cement Manufacturing Industry
# Raw Mills and Finish Mills Requirements

**Requirements Currently in Effect and Ongoing After September 2015:**

§63.1345: Opacity Limit
- Limit opacity to 10 %.

§63.1348(a)(2) & §63.1349(b)(2): Initial Performance Test – Opacity
- 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. Use maximum 6-minute average opacity during performance test period.

§63.1350(f)(2)(i): Daily Opacity Monitoring
- Perform daily opacity monitoring using EPA Method 22 for six minutes.

§63.1350(f)(2)(ii) & (f)(2)(iii) & (f)(3): Daily Opacity Monitoring
- If visible emissions are observed during opacity monitoring, perform follow-up EPA Method 22 test within 24 hours. If visible emissions are observed after follow-up test perform EPA Method 9 test for 30 minutes. If visible emissions are observed, initiate, within one hour, the corrective actions specified in the O&M Plan.

§63.1350(p)(1) through (4) & (o)(5): Prepare an Opacity Monitoring Plan (O&M Plan)

**General Requirements:**

§63.6(e)(3): SSM Plan
- Develop startup, shutdown, and malfunction (SSM) plan.

§63.1347: O&M Plan
- Prepare an operations and maintenance (O&M) plan.

§63.1353(b)(3) & §63.9(f): Performance Test Notification Requirements
- Notify administrator of opacity test at least 30 calendar days before scheduled test date.

§63.1353(b)(5): Performance Test Results (Compliance Status) Notification Requirements
- Notification of compliance status within 30 or 60 days after performance test completed.

§63.1354(b)(2) & §63.10(d)(3): Reporting Requirements – Test Results
- Submit results of opacity observations before 30 days following the completion of the VE/opacity observation.

§63.1354(b)(9) & §63.1354(c) & §63.10(d)(5)(i): Semiannual Malfunction Report
- 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.

§63.10(d)(5)(ii): Deviation Reporting

- Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

§63.1355(a) & (b) & §63.10(b) & (c): Recordkeeping Requirements

- 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

**Specific Requirements:**

None

# Section C6:
# 40 CFR 60, Subpart A, & 40 CFR 63, Subpart LLL, NESHAP for Portland Cement Manufacturing Industry
# Other Affected Sources

**Requirements Currently in Effect and Ongoing After September 2015:**

§63.1345: Opacity Limit
- Limit opacity to 10 %.

§63.1348(a)(2) & §63.1349(b)(2): Initial Performance Test – Opacity
- 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. Use maximum 6-minute average opacity during performance test period.

§63.1350(f)(1)(i)-(iii): Continuing Opacity Monitoring
- 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.

§63.1350(f)(1)(iv) & §63.1350(f)(3): Continuing Opacity Monitoring – Visible Emissions Observed
- If visible emissions are observed during opacity monitoring, initiate, within one hour, corrective actions as specified in the O&M Plan, immediately followed by VE inspection using EPA Method 9.

§63.1350(p)(1) through (4) & (o)(5): Prepare an Opacity Monitoring Plan (O&M Plan)

**General Requirements:**

§63.6(e)(3): SSM Plan
- Develop startup, shutdown, and malfunction (SSM) plan.

§63.1347: O&M Plan
- Prepare an operations and maintenance (O&M) plan.

§63.1353(b)(3) & §63.9(f): Performance Test Notification Requirements

- Notify administrator of opacity test at least 30 calendar days before scheduled test date.

§63.1353(b)(5): Performance Test Results (Compliance Status) Notification Requirements
- Notification of compliance status within 30 or 60 days after performance test completed.

§63.1354(b)(2) & §63.10(d)(3): Reporting Requirements – Test Results
- Submit results of opacity observations before 30 days following the completion of the VE/opacity observation.

§63.1354(b)(9) & §63.1354(c) & §63.10(d)(5)(i): Semiannual Malfunction Report
- 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.

§63.10(d)(5)(ii): Deviation Reporting
- Notify EPA and MDAQMD within 2 working days of actions not consistent with SSM plan, followed by certified letter within 7 days.

§63.1355(a) & (b) & §63.10(b) & (c): Recordkeeping Requirements
- 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

**Specific Requirements:**

None

# Section C7:
# 40 CFR 63, Subpart LLL,
# NESHAP for Portland Cement Manufacturing Industry
# Summary of Applicable Requirements from 40 CFR 63, Subpart A

| Citation | Requirement | MCC Applicability | Explanation |
|---|---|---|---|
| §63.1(a)(1)-(4) | Applicability | Yes | |
| §63.1(a)(5) | | No | [Reserved] |
| §63.1(a)(6)-(8) | Applicability | Yes | |
| §63.1(a)(9) | | No | [Reserved] |
| §63.1(a)(10)-(14) | Applicability | Yes | |
| §63.1(b)(1) | Initial Applicability Determination | No | §63.1340 specifies applicability. |
| §63.1(b)(2)-(3) | Initial Applicability Determination | Yes | |
| §63.1(c)(1) | Applicability After Standard Established | Yes | |
| §63.1(c)(2) | Permit Requirements | Yes | Area sources must obtain Title V permits. |
| §63.1(c)(3) | | No | [Reserved] |
| §63.1(c)(4)-(5) | Extensions, Notifications | Yes | |
| §63.1(d) | | No | [Reserved] |
| §63.1(e) | Applicability of Permit Program | Yes | |
| §63.2 | Definitions | Yes | Additional definitions in §63.1341. |
| §63.3(a)-(c) | Units and Abbreviations | Yes | |
| §63.4(a)(1)-(3) | Prohibited Activities | Yes | |
| §63.4(a)(4) | | No | [Reserved] |
| §63.4(a)(5) | Compliance date | Yes | |
| §63.4(b)-(c) | Circumvention, Severability | Yes | |
| §63.5(a)(1)-(2) | Construction/Reconstruction | Yes | |
| §63.5(b)(1) | Compliance Dates | Yes | |
| §63.5(b)(2) | | No | [Reserved] |
| §63.5(b)(3)-(6) | Construction Approval, Applicability | Yes | |
| §63.5(c) | | No | [Reserved] |
| §63.5(d)(1)-(4) | Approval of Construction/Reconstruction | Yes | |
| §63.5(e) | Approval of Construction/Reconstruction | Yes | |
| §63.5(f)(1)-(2) | Approval of Construction/Reconstruction | Yes | |
| §63.6(a) | Compliance for Standards and Maintenance | Yes | |
| §63.6(b)(1)-(5) | Compliance Dates | Yes | |
| §63.6(b)(6) | | No | [Reserved] |
| §63.6(b)(7) | Compliance Dates | Yes | |
| §63.6(c)(1)-(2) | Compliance Dates | Yes | |

| | | | |
|---|---|---|---|
| §63.6(c)(3)-(4) | | No | [Reserved] |
| §63.6(c)(5) | Compliance Dates | Yes | |
| §63.6(d) | | No | [Reserved] |
| §63.6(e)(1)-(2) | Operation & Maintenance | No | §63.1348(d) for general duty requirement. Any reference to §63.6(e)(1)(i) in other General Provisions or in this subpart is to be treated as a cross-reference to §63.1348(d). |
| §63.6(e)(3) | Startup, Shutdown Malfunction Plan | No | Your operations and maintenance plan must address periods of startup and shutdown. See §63.1347(a)(1). |
| §63.6(f)(1) | Compliance with Emission Standards | No | Compliance obligations specified in subpart LLL. |
| §63.6(f)(2)-(3) | Compliance with Emission Standards | Yes | |
| §63.6(g)(1)-(3) | Alternative Standard | Yes | |
| §63.6(h)(1) | Opacity/VE Standards | No | Compliance obligations specified in subpart LLL. |
| §63.6(h)(2) | Opacity/VE Standards | Yes | |
| §63.6(h)(3) | | No | [Reserved] |
| §63.6(h)(4)-(h)(5)(i) | Opacity/VE Standards | Yes | |
| §63.6(h)(5)(ii)-(iv) | Opacity/VE Standards | No | Test duration specified in subpart LLL. |
| §63.6(h)(6) | Opacity/VE Standards | Yes | |
| §63.6(h)(7) | Opacity/VE Standards | Yes | |
| §63.6(i)(1)-(14) | Extension of Compliance | Yes | |
| §63.6(i)(15) | | No | [Reserved] |
| §63.6(i)(16) | Extension of Compliance | Yes | |
| §63.6(j) | Exemption from Compliance | Yes | |
| §63.7(a)(1)-(3) | Performance Testing Requirements | Yes | §63.1349 has specific requirements. |
| §63.7(b) | Notification period | Yes | Except for repeat performance test caused by an exceedance. See §63.1353(b)(6) |
| §63.7(c) | Quality Assurance/Test Plan | Yes | |
| §63.7(d) | Testing Facilities | Yes | |
| §63.7(e)(1) | Conduct of Tests | No | See §63.1349(e). Any reference to 63.7(e)(1) in other General Provisions or in this subpart is to be treated as a cross-reference to §63.1349(e). |
| §63.7(e)(2)-(4) | Conduct of tests | Yes | |

| | | | |
|---|---|---|---|
| §63.7(f) | Alternative Test Method | Yes | |
| §63.7(g) | Data Analysis | Yes | |
| §63.7(h) | Waiver of Tests | Yes | |
| §63.8(a)(1) | Monitoring Requirements | Yes | |
| §63.8(a)(2) | Monitoring | No | §63.1350 includes CEMS requirements. |
| §63.8(a)(3) | | No | [Reserved] |
| §63.8(a)(4) | Monitoring | No | Flares not applicable. |
| §63.8(b)(1)-(3) | Conduct of Monitoring | Yes | |
| §63.8(c)(1)-(8) | CMS Operation/Maintenance | Yes | Temperature and activated carbon injection monitoring data reduction requirements given in subpart LLL. |
| §63.8(d) | Quality Control | Yes, except for the reference to the SSM Plan in the last sentence | |
| §63.8(e) | Performance Evaluation for CMS | Yes | |
| §63.8(f)(1)-(5) | Alternative Monitoring Method | Yes | Additional requirements in §63.1350(l). |
| §63.8(f)(6) | Alternative to RATA Test | Yes | |
| §63.8(g) | Data Reduction | Yes | |
| §63.9(a) | Notification Requirements | Yes | |
| §63.9(b)(1)-(5) | Initial Notifications | Yes | |
| §63.9(c) | Request for Compliance Extension | Yes | |
| §63.9(d) | New Source Notification for Special Compliance Requirements | Yes | |
| §63.9(e) | Notification of Performance Test | Yes | Except for repeat performance test caused by an exceedance. See §63.1353(b)(6). |
| §63.9(f) | Notification of VE/Opacity Test | Yes | Notification not required for VE/opacity test under §63.1350(e) and (j). |
| §63.9(g) | Additional CMS Notifications | Yes | |
| §63.9(h)(1)-(3) | Notification of Compliance Status | Yes | |
| §63.9(h)(4) | | No | [Reserved] |
| §63.9(h)(5)-(6) | Notification of Compliance Status | Yes | |
| §63.9(i) | Adjustment of Deadlines | Yes | |
| §63.9(j) | Change in Previous Information | Yes | |
| §63.10(a) | Recordkeeping/Reporting | Yes | |
| §63.10(b)(1) | General Recordkeeping Requirements | Yes | |
| §63.10(b)(2)(i)-(ii) | General Recordkeeping Requirements | No | See §63.1355(g) and (h). |

| | | | |
|---|---|---|---|
| §63.10(b)(2)(iii) | General Recordkeeping Requirements | Yes | |
| §63.10(b)(2)(iv)-(v) | General Recordkeeping Requirements | No | |
| §63.10(b)(2)(vi)-(ix) | General Recordkeeping Requirements | Yes | |
| §63.10(c)(1) | Additional CMS Recordkeeping | Yes | PS-8A supersedes requirements for THC CEMS. |
| §63.10(c)(1) | Additional CMS Recordkeeping | Yes | PS-8A supersedes requirements for THC CEMS. |
| §63.10(c)(2)-(4) | | No | [Reserved] |
| §63.10(c)(5)-(8) | Additional CMS Recordkeeping | Yes | PS-8A supersedes requirements for THC CEMS. |
| §63.10(c)(9) | | No | [Reserved] |
| §63.10(c)(10)-(15) | Additional CMS Recordkeeping | Yes | PS-8A supersedes requirements for THC CEMS. |
| §63.10(d)(1) | General Reporting Requirements | Yes | |
| §63.10(d)(2) | Performance Test Results | Yes | |
| §63.10(d)(3) | Opacity or VE Observations | Yes | |
| §63.10(d)(4) | Progress Reports | Yes | |
| §63.10(d)(5) | Startup, Shutdown, Malfunction Reports | No | See §63.1354(c) for reporting requirements. Any reference to § 63.10(d)(5) in other General Provisions or in this subpart is to be treated as a cross-reference to §63.1354(c). |
| §63.10(e)(1)-(2) | Additional CMS Reports | Yes | |
| §63.10(e)(3) | Excess Emissions and CMS Performance Reports | Yes | Exceedances are defined in subpart LLL. |
| §63.10(e)(3)(vii) and (viii) | Excess Emissions and CMS Performance Reports | No | Superseded by §63.1354(b)(10). |
| §63.10(f) | Waiver for Recordkeeping/Reporting | Yes | |
| §63.11(a)-(b) | Control Device Requirements | No | Flares not applicable. |
| §63.12(a)-(c) | State Authority and Delegations | Yes | |
| §63.13(a)-(c) | State/Regional Addresses | Yes | |
| §63.14(a)-(b) | Incorporation by Reference | Yes | |
| §63.15(a)-(b) | Availability of Information | Yes | |

# Section C8:
# 40 CFR 63, Subpart LLL,
# NESHAP for Portland Cement Manufacturing Industry
# Rule Overview,
# Effective September 2015

| Citation | | | Source | Pollutant | Requirement Description | Document Location |
|---|---|---|---|---|---|---|
| §63.1340 | | | General | N/A | Applicability | General |
| §63.1341 | | | General | N/A | Definitions | General |
| §63.1342 | | | General | N/A | 40CFR63 Subpart A General Provisions per Table 3 | General |
| §63.1343 | (a) | | General | All | Units of measure employed in standards | General |
| | (b)(1) | | All | Each pollutant | Emission limits (by source and pollutant) per Table 1 | By source (& see **Table**) |
| | (c) | | General | PM | Open clinker storage piles | General |
| §63.1344 | | | N/A | N/A | Reserved | None |
| §63.1345 | | | Other aff. | Opacity | Emission limit (opacity only) | Other aff. (Exist. Req.) |
| §63.1346 | (a)-(b) | | Kiln | Dioxin/Furan | Operating requirements (Baghouse inlet temp. limit) | Kiln D/F (Existing Req.) |
| | (c)-(e) | | | | Activated carbon injection for D/F control | Section does not apply |
| | (f) | | General | General | Prohibition on use of fly ash in kiln | General |
| | (g) | | General | General | Requirements during startup and shutdown periods | General |
| §63.1347 | (a)-(b) | | General | N/A | Operation and maintenance plan requirements (including annual combustion system inspection) | General |
| §63.1348 | (a) | | | Each pollutant | Initial performance testing | |
| | | (1) | Kiln/CC | PM | PM compliance | Kiln PM/Clinker Cooler |
| | | (2) | Mills/Other | Opacity | Opacity compliance | Mills & Other (Exist. R.) |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | (3) | Kiln | Dioxin/Furan | D/F compliance | Kiln D/F (Existing Req.) |
| | | (4) | Kiln | THC | THC compliance | Kiln THC |
| | | (5) | Kiln | Hg | Hg compliance | Kiln Hg |
| | | (6) | Kiln | HCl | HCl compliance | Kiln HCl |
| | | (7) | Kiln | All | Commingled exhaust requirements | Section does not apply |
| | (b) | | | Each pollutant | Continuous monitoring | |
| | | (1) | General | All | General monitoring requirements | General |
| | | (2) | Kiln/CC | PM | PM compliance | Kiln PM/Clinker cooler |
| | | (3) | Mills/Other | Opacity | Opacity compliance | Mills & Other (Exist. R.) |
| | | (4) | Kiln | Dioxin/Furan | D/F compliance | Kiln D/F (Existing Req.) |
| | | (5) | Kiln | Dioxin/Furan | Activated carbon injection compliance | Section does not apply |
| | | (6) | Kiln | THC | THC compliance | Kiln THC |
| | | (7) | Kiln | Hg | Hg compliance | Kiln Hg |
| | | (8) | Kiln | HCl | HCl compliance | Kiln HCl |
| | | (9) | General | All | Startup and shutdown compliance | General |
| | (c) | | General | All | Changes in operations | General |
| | (d) | | General | All | General duty to minimize emissions | General |
| §63.1349 | | | | Each pollutant | Performance testing | |
| | (a) | | General | All | Standards for documenting performance test results | General |
| | (b) | (1) | Kiln/CC | PM | PM emissions tests | Kiln PM/Clinker cooler |
| | | (2) | Mills/Other | Opacity | Opacity tests | Mills & Other affected |
| | | (3) | Kiln | Dioxin/Furan | D/F emissions tests | Kiln D/F (Existing Req.) |
| | | (4) | Kiln | THC | THC emissions tests | Kiln THC |
| | | (5) | Kiln | Hg | Hg emissions tests | Kiln Hg |
| | | (6) | Kiln | HCl | HCl emissions tests | Kiln HCl |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | (7) | Kiln | THC | Total organic HAP emissions tests | Section does not apply |
| | | (8) | Kiln | HCl | HCl emissions tests with $SO_2$ monitoring | Section does not apply |
| | (c) | | General | All | Performance test frequency | General |
| | (d) | | General | All | Performance test reporting requirements | General |
| | (e) | | General | All | Conditions of performance tests | General |
| §63.1350 | | | | Each pollutant | Monitoring | |
| | (a) | | General | All | Continuous monitoring data compilation methods | General |
| | (b) | | Kiln/CC | PM | PM monitoring requirements | Kiln PM/Clinker Cooler |
| | (c) | | N/A | N/A | Reserved | None |
| | (d) | | Kiln | General | Clinker production monitoring requirements | General |
| | (e) | | N/A | N/A | Reserved | None |
| | (f) | | Mills/Other | Opacity | Opacity monitoring requirements for units w. BLDS | Section does not apply |
| | (g) | | Kiln | Dioxin/Furan | D/F monitoring requirements (baghouse inlet temp.) | Kiln D/F (Existing Req.) |
| | (h) | | Kiln | D/F and Hg | Monitoring for sources using activated carbon injection | Section does not apply |
| | (i) | | Kiln | THC | THC monitoring requirements | Kiln THC |
| | (j) | | Kiln | THC | Total organic HAP monitoring requirements | Section does not apply |
| | (k) | | Kiln | Hg | Hg monitoring requirements | Kiln Hg |
| | (l) | | Kiln | HCl | HCl monitoring requirements | Kiln HCl |
| | (m) | (1)-(4) | General | All | Parametric monitoring requirements—all CMS | General |
| | | (5) | Kiln | HCl | Liquid flowrate monitoring req. for scrubbers | Section does not apply |
| | | (6) | Kiln | HCl | Specific pressure monitoring requirements | Section does not apply |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | (7) | Kiln | HCl | Specific pH monitoring req. for wet scrubbers | Section does not apply |
| | | (8) | N/A | N/A | Reserved | None |
| | | (9) | Kiln | THC | Mass flow rate monitoring for AC injection | Kiln HCl |
| §63.1350 | (m) | (10) | Mills/Other | Opacity | BLDS monitoring requirements | Section does not apply |
| | | (11) | Mills/Other | Opacity | BLDS alarm response | Section does not apply |
| | (n) | | Kiln | All | Continuous flow rate monitoring system | General |
| | (o) | | General | All | Alternative monitoring requirements approval | General |
| | (p) | (1)-(4) | General | All | Development of monitoring plans | General |
| | (p) | (5) | General | Opacity | BLDS monitoring plan | Section does not apply |
| §63.1351 | | | General | N/A | Compliance dates | General |
| §63.1352 | | | General | N/A | Additional test methods | General |
| §63.1353 | | | General | N/A | Notification requirements | General |
| §63.1354 | | | General | N/A | Reporting requirements | General |
| §63.1355 | | | General | N/A | Recordkeeping requirements | General |
| §63.1356 | | | General | N/A | Sources with multiple limits or requirements | General |
| §63.1357 | | | General | N/A | Reserved | None |
| §63.1358 | | | General | N/A | Implementation and enforcement | General |
| §63.1359 | | | N/A | N/A | Reserved | None |
| Table 3 | | | General | N/A | Applicability of Subpart A General Provisions | General |

# Section C9:
# 40 CFR 63, Subpart LLL,
# NESHAP for Portland Cement Manufacturing Industry
# General Requirements
# Effective September 2015

| Citation | | | Requirement Description | Requirements Specifics |
|---|---|---|---|---|
| §63.1340 | | | Applicability | |
| | (a) | | Requirements apply to major and area sources | |
| | (b) | | The affected sources at MCC are:<br>- Kiln (with inline raw mill exhausting to same stack and inline coal mill with separate stack)<br>- Clinker cooler<br>- Raw mill (no separate stack)<br>- Finish mills<br>- Other affected sources, including:<br>  - Raw material, clinker, or finished product storage bins<br>  - Conveying system transfer points<br>  - Bagging and bulk loading and unloading systems<br>  - Open clinker storage piles | |
| §63.1341 | | | Definitions—See list of definitions that apply to this Subpart | |
| §63.1342 | | | 40CFR63 Subpart A General Provisions per Table 3—see Table 3 for applicable general provisions | |
| §63.1343 | (a) | | Units of measure employed in standards—see list of units of measure | |
| §63.1343 | (c) | | Open clinker storage piles | |
| §63.1346 | (f) | | Prohibition on use of fly ash in kiln | |
| | (g) | | Requirements during startup and shutdown periods | |
| | | (1) | Use any one or a combination of listed clean fuels | |
| | | (2) | Combustion of primary kiln fuel may commence once kiln temperature reaches 1200 degrees Fahrenheit | |
| | | (3) | All air pollution control devices must be turned on and operating | |
| | | (4) | Keep records as specified during periods of | |

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| | | | startup and shutdown | |
| §63.1347 | | | Operation and maintenance plan requirements | |
| | (a) | | Prepare O&M plan describing O&M procedures, corrective actions, combustion system inspection procedures | |
| | (b) | | Comply with O&M plan provisions to avoid a violation of standard | |
| §63.1348 | (b) | | Continuous monitoring | |
| | | (1) | Collect data according to 63.1350 and site-specific monitoring plan in 63.1350(p); collect data at required intervals; do not use data recorded during malfunctions, repairs, or required QC periods | |
| | | (9) | During startup and shutdown periods, keep all air pollution control devices operating. | |
| | (c) | | Changes in operations | |
| | | (1) | If you plan to undertake a change in operations that may adversely affect compliance during startup and shutdown, the source must conduct a performance test | |
| | | (2) | In preparation for and while conducting a performance test, you may operate under the planned changed conditions for up to 360 hours; notification must be provided, and test plan and report prepared | |
| | (d) | | There is a general duty at all time to operate and maintain any affected source, including associated air pollution control equipment, in a manner to minimize emissions. | |
| §63.1349 | | | Performance testing | |
| | (a) | | Documenting performance test results per the standards listed. | |
| | (c) | | Performance test frequency for D/F, HCl or THC is every 30 months, except where pollutant is monitored by CEMS. Performance test frequency for PM is every 12 months | |
| | (d) | | Reserved | |
| | (e) | | Conduct performance tests under representative conditions and keep records of the conditions during the test. | |
| §63.1350 | | | Monitoring | |
| | (a) | | Continuous monitoring data compilation methods | |
| | | (1) | You must demonstrate compliance on a | |

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| | | | continuous basis | |
| | | (2) | Reserved | |
| | | (3) | Maintain the average operating parameter values within the limits | |
| | | (4) | Any instance where fail to comply with continuous monitoring requirements is a violation | |
| §63.1350 | (d) | | Clinker production monitoring requirements | |
| | | (1) | Determine hourly clinker production using either weigh scale for clinker produced or weigh scale for kiln feed, where ratio of clinker to kiln feed is applied that is updated monthly (based on reconciled clinker production determined for accounting purposes and feed rates) | |
| | | (2) | Determine and record the accuracy of the system once per quarter | |
| | | (3) | Record either clinker production or kiln feed, as applicable | |
| | | (4) | Develop an emissions monitoring plan per 63.1350(p) | |
| | (m) | | Parametric monitoring requirements—all CMS | |
| | | (1) | Complete one cycle of operation for each successive 15-minute period | |
| | | (2) | Conduct continuous monitoring at all times the unit is operating | |
| | | (3) | Determine the 1-hour block average of all recorded readings | |
| | | (4) | Record the results of each inspection, calibration, and validation. | |
| | (n) | | Continuous flow rate monitoring system | |
| | | (1) | Install each sensor in a location that provides representative sampling | |
| | | (2) | Set the range as specified | |
| | | (3) | Reserved | |
| | | (4) | The flow rate monitor must be equipped with data acquisition system | |
| | | (5) | The DAS must be compatible with the output signal of the sensors | |
| | | (6) | The system must complete a minimum of one cycle of operation for each successive 15-minute period | |
| | | (7) | The sensor must have provisions to determine the daily zero and upscale | |

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| | | | calibration drift | |
| | | (8) | You must perform an initial relative accuracy test of the system | |
| | | (9) | You must repeat the relative accuracy test at least once per year | |
| | | (10) | You must operate the monitoring system at all periods of operation including periods of startup and shutdown, except periods of monitoring system malfunctions, repairs, and required QA | |
| | (o) | | Alternative monitoring requirements approval | |
| | (p) | (1) | Prepare a monitoring plan, including performance specifications | |
| | | (2) | Include ongoing O&M, daily QA, and reporting procedures | |
| | | (3) | Conduct a performance evaluation in accordance with the plan | |
| | | (4) | Operate & maintain the CMS in continuous operation according to plan | |
| §63.1351 | | | Compliance dates | |
| | (c) | | Comply with requirements by 9/9/2015 | |
| | (e) | | Comply with requirements for open clinker storage piles by 2/12/2014 | |
| §63.1352 | | | Additional test methods | |
| | (a) | | May use Method 320 or 321 to determine applicability of HCl requirements | |
| | (b) | | May use Method 320 or 18 to determine applicability of THC requirements | |
| §63.1353 | | | Notification requirements | |
| | (a) | | Can send same notices to EPA that were sent to state | |
| | (b) | (1) | Initial notifications (Title V application can be used as notification) | |
| | | (2) | Performance test notifications | |
| | | (3) | Opacity observation notifications | |
| | | (4) | CEMS performance evaluation notifications | |
| | | (5) | Compliance status notification | |
| | | (6) | Unplanned performance test notifications (within 48 hrs of exceedance) | |
| §63.1354 | | | Reporting requirements | |
| | (a) | | Can send same reports to EPA that were sent to state | |
| | (b) | | Reporting requirements specified in §63.10 | |
| | | (1) | Performance tests | |

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| | | (2) | Opacity results | |
| | | (3) | Progress reports as a condition of extension of compliance | |
| | | (6) | CMS performance evaluation | |
| | | (7) | Section does not apply (continuous opacity monitor) | |
| | | (8) | Excess emissions and CMS performance report | |
| | | (9) | Semiannual summary report of exceedances and other items (including annual combustion system inspections) | |
| | | (10) | Semiannual detail report in cases where CMS downtime >10% | |
| | (c) | | Report noncompliance due to malfunction in semi-annual report | |
| §63.1355 | | | Recordkeeping requirements | |
| | (a) | | Keep records of last 5 years; records of last 2 years must be kept onsite | |
| | (b)-(c) | | Maintain records as required by 63.10 | |
| | (d) | | Reserved | |
| | (e) | | Keep records of daily clinker production and kiln feed rates | |
| | (f) | | Keep records of startup/shutdown periods | |
| | (g) | | Keep records of malfunctions and corrective actions | |
| | (h) | | Keep records of exceedance of emission standard or parameter limit | |
| §63.1356 | | | Sources with multiple limits or requirements; comply with most stringent standard | |
| §63.1357 | | | Reserved | |
| §63.1358 | | | Implementation and enforcement | |
| | (a)-(b) | | Subpart can be implemented and enforced by EPA or delegated agency | |
| | (c) | | Authorities that cannot be delegated to agency by EPA | |
| §63.1359 | | | Reserved | |
| Table 1 | | | Applicability of Subpart A General Provisions (see attached copy) | |

# Section C10:
# 40 CFR 63, Subpart LLL,
# NESHAP for Portland Cement Manufacturing Industry
# Kiln & Clinker Cooler Requirements by Pollutant
# Effective September 15, 2015

**PM Requirements:**

| Citation | | | Requirement |
|---|---|---|---|
| §63.1343 | (b)(1) | | PM emission limit for existing kiln, 0.07 lb/ton clinker |
| §63.1348 | (a)(1) | | Initial performance test for PM per §63.1349(b)(1) |
| | (b)(2) | | Continuous monitoring per §63.1350(b) and (d) |
| §63.1349 | (b)(1) | (i) | Establish site-specific CPMS operating limit by PM source test conducted annually using Method 5 or 5I in Appendix A-3 of 40CFR60. Follow procedures for using average PM CPMS value during source test to set operating limit (separate approaches for average PM emission level below 75 percent or at or above 75 percent) |
| | | (ii) | Verify an existing or establish a new operating limit after each performance test, using calculations in either (b)(1)(iii) or (iv) |
| | | (iii) | Follow calculation procedures for PM emission level below 75 percent |
| | | (iv) | Follow calculation procedures for PM emission level at or above 75 percent |
| | | (v) | To determine continuous operating compliance, record the PM CPMS output data for all periods when the process is operating and use equation shown to calculate the 30 kiln operating day average |
| | | (vi) | Use three separate test runs at highest load or capacity level reasonably expected to occur. Use minimum sample volume of 2 dscm. You do not need to determine PM in the impingers ("back half") |
| | | (vii) | Follow instructions for items included in electronic submission of test report |
| | | (viii) | For kiln with inline coal mill with separate stacks, use equation shown for combined emission rate of PM from kiln and inline coal mill stacks |
| | | (ix) | For a kiln with inline raw mill, conduct separate performance tests with raw mill on and raw mill off. |
| §63.1350 | (b)(1) | (i) | Establish site-specific CPMS operating limit by PM source test. Repeat the test annually and if you change the analytical range of the instrument or if you replace the instrument or any principal component of the instrument. |
| | | (ii) | Record the CPMS data for all periods when the process is operating and the PM CPMS is not out-of-control. Calculate the |

| | | | |
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| | | | 30 kiln operating day average. |
| | | (iii)(A) | For any exceedance of the limit by the 30 kiln operating day PM CPMS average, within 48 hours, visually inspect the APCD |
| | | (iii)(B) | If a cause is identified, take corrective action as soon as possible. |
| | | (iii)(C) | Within 30 days of the exceedance, conduct a PM compliance test per above |

**THC Requirements:**

| Citation | | | Requirement |
|---|---|---|---|
| §63.1343 | (a) | | Compliance with THC standard is based on a rolling 30-day average |
| | (b)(1) | | THC emission limit for existing kiln, 24 ppmvd @ 7%O2 |
| | | | |
| §63.1348 | (a)(4) | (i) | Initial performance test for THC using §63.1349(b)(4)(i), with compliance based on data for the first 30 kiln operating days after the compliance date |
| | | (ii) | Section does not apply |
| | | (iii) | Section does not apply |
| | | (iv) | Section does not apply |
| | (b)(6) | (i) | Continuous monitoring per 63.1350(i) |
| | | (ii) | During coal mill vent source testing, THC may be measured either upstream of the coal mill or in coal mill stack |
| | | | |
| §63.1349 | (b)(4) | (i) | Install, calibrate, and maintain a continuous monitor per §63.1350(i) |
| | | (ii) | Use the CEMS to conduct the initial compliance test for the first 30 kiln operating days after the compliance date |
| | | (iii) | For kiln with inline coal mill with separate stacks, use equation shown for combined emission rate of THC from kiln and inline coal mill stacks |
| | | (iv) | Section does not apply |
| | | | |
| §63.1350 | (i) | | Also meet §63.1350 (m)(1) through (m)(4)—See general requirements |
| | (i)(1) | | Install and operate THC CEMS per PS 8A of 40CFR60. Follow QA requirements in Procedure 1 of Appendix F of 40CFR60. |
| | (i)(2) | | Performance tests on coal mill stacks must be conducted using Method 25A in Appendix A to 40CFR60 and repeated every 30 months |

**Hg Requirements:**

| Citation | | | Requirement |
|---|---|---|---|
| §63.1343 | (a) | | Compliance with Hg standard is based on a rolling 30-day average |
| | (b)(1) | | Hg emission limit for existing kiln, 55 lbs/MM ton clinker (for clinker monitoring, see general requirements) |
| | | | |
| §63.1348 | (a)(5) | | Initial performance test for Hg per §63.1349(b)(5); compliance by Hg CEMS |
| | (b)(7) | (i) | Continuous monitoring per §63.1350(k) |
| | | (ii) | During coal mill vent source testing, Hg may be measured either upstream of the coal mill or in coal mill stack |
| | | | |
| §63.1349 | (b)(5) | (i) | Install, calibrate, and maintain continuous monitor per 63.1350(k) |
| | | (ii) | Use equation shown to calculate Hg emission rate |
| | | | |
| §63.1350 | (k) | | Install and operate Hg CEMS per PS 12A of Appendix B of 40CFR60 |
| | | (1) | Select span value as specified. |
| | | (2) | For data above the span value, use one of three options specified |
| | | (3) | Perform QA per Procedure 5 of Appendix F of 40CFR60 |
| | | (4) | Relative accuracy testing must occur at normal operating conditions and at raw mill on |
| | | (5) | Install, calibrate, and maintain continuous flow monitor per §63.1350(n)—see general requirements and annual source test for CMV stacks (reduce frequency to once every 30 months if values are below the method detection limit for two consecutive annual performance tests) |
| | | (6) | Section does not apply |

**HCl Requirements:**

| Citation | | | Requirement | |
|---|---|---|---|---|
| | | | Kiln HCl requirements: | |
| §63.1343 | (b)(1) | | HCl emission limit for existing kiln in Table 1, 3 ppmvd @ 7%$O_2$ | |
| | | | | |
| §63.1348 | (a)(6) | (i) | Initial performance test for HCl with dry scrubber per 63.1349(b)(6)(i) | |
| | | (ii) | Section does not apply | |
| §63.1348 | (b)(8) | (i) | Section does not apply | |
| | | (ii) | Continuous monitoring for unit with dry scrubber per 63.1350(l)(2) | |
| | | (iii) | Coal mill vent test options upstream or in coal mill | Include all options? |
| | | (iv) | Option to use $SO_2$ CEMS per 63.1350(l)(3) in lieu of 63.1350(l)(2) | Include all options? |
| | | | | |
| §63.1349 | (b)(6) | (i)(A) | Performance test using Method 321 of Appendix A to 40CFR63 | |
| | | (i)(B) | Establish site specific parameter limits using CMS required in 63.1350(l)(4) for dry solvent injection rate | |
| | | (ii) | Section does not apply | |
| | | (iii) | If select option to use SO2 CEMS, establish $SO_2$ operating limit | Include all options? |
| | | (iv) | Calculation of HCl limit in case of kiln gases diverted to a coal mill and exhausted through a separate stack | |
| | | (v) | HCl CPMS option, including 30DA calculation | |
| | | | | |
| §63.1350 | (l) | (1) | Section does not apply | |
| | | (2) | Install, operate, and maintain a CMS as specified in 63.1350(m)(5) | |
| | | (3) | If select option to use $SO_2$ CEMS, meet these requirements | Include all options? |
| | | (4) | HCl CPMS option, requirements in case of exceedance | |
| | | | | |
| §63.1350 | (m) | | Parametric Monitoring | |
| | | (9) | Meet mass flow rate requirements, as specified | |

**Summary of Emission Limits:**

| Source | Pollutant | Units | Limit |
|---|---|---|---|
| Kiln | D/F | ng/dscm (TEQ) | 0.2, or 0.4 if DC inlet temp. <400ºF |
| Kiln | PM | lb/ton clinker | 0.07 |
| Kiln | THC | ppmvd as propane | 24 |
| Kiln | Hg | lb/MM ton clinker | 55 |
| Kiln | HCl | ppmvd | 3 |
| Clinker Cooler | PM | lb/ton clinker | 0.07 |
| Raw Mills/Finish mills | Opacity | Percent | 10 |
| Other Affected Sources | Opacity | Percent | 10 |

Note 1: For all concentration limits, oxygen correction is 7%
Note 2: Limits shown are for normal operation

# Section C11: Emergency DRP Reciprocating Internal Combustion Engines, < 500 bhp

## 40 CFR 60, Subpart IIII, NSPS for Stationary Compression Ignition Internal Combustion Engines

These engines shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

§60.4204(b)

- Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.

§60.4201(a)

- Stationary CI internal combustion engine manufacturers must certify nonemergency stationary CI ICE with a maximum engine power less than or equal to 2,237 kilowatt and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 1039.101 and 40 CFR 1039.115 for all pollutants, for the same model year and maximum engine power.
- The emissions standards in 40 CFR 1039.101 are presented in the table below.

**TABLE 1 OF §1039.101—TIER 4 EXHAUST EMISSION STANDARDS AFTER THE 2014 MODEL YEAR, G/KW-HR[1]**

| Maximum engine power | Application | PM | $NO_X$ | NMHC | $NO_X$ + NMHC | CO |
|---|---|---|---|---|---|---|
| kW <19 | All | [2]0.40 | | | 7.5 | [3]6.6 |
| 19 ≤kW <56 | All | 0.03 | | | 4.7 | [4]5.0 |
| 56 ≤kW <130 | All | 0.02 | 0.40 | 0.19 | | 5.0 |
| 130 ≤kW ≤560 | All | 0.02 | 0.40 | 0.19 | | 3.5 |
| | Generator sets | 0.03 | 0.67 | 0.19 | | 3.5 |
| kW >560 | All except generator sets | 0.04 | 3.5 | 0.19 | | 3.5 |

[1] Note that some of these standards also apply for 2014 and earlier model years. This table presents the full set of emission standards that apply after all the transition and phase-in provisions of §1039.102 expire.
[2] See paragraph (c) of this section for provisions related to an optional PM standard for certain engines below 8 kW.
[3] The CO standard is 8.0 g/kW-hr for engines below 8 kW.
[4] The CO standard is 5.5 g/kW-hr for engines below 37 kW.

- 40 CFR 1039.115(a) requires that emissions from the crankcase be routed to control devices or included as exhaust when the engine is certified.

§60.4206
- The owner and operator must operate and maintain stationary CI ICE to achieve the emission standards as required in §60.4204 over the entire life of the engine.

§60.4207(b)
- The engine must use fuel that meets the requirements of 40 CFR 80.510(b).
- 40 CFR 80.510(b) requires a maximum fuel sulfur content of 15 ppm. It also requires a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

§60.4209(b)
- You must install a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

§60.4211(a)(1)
- Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions.

§60.4211(a)(2)
- Change only those emission-related settings that are permitted by the manufacturer.

§60.4211(a)(3)
- Meet all the requirements of 40 CFR Part 1068, as they apply to you. This regulation contains compliance provisions for engines, such as provisions for EPA audits, engine sales, and other provisions that are unlikely to have a direct connection to MCC.

§60.4214(c)
- You must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

§60.4218
- Applicable general provisions in §§ 60.1 through 60.19 are in Table 8.

**Table 8 to Subpart IIII of Part 60—Applicability of General Provisions to Subpart IIII**

[As stated in §60.4218, you must comply with the following applicable General Provisions:]

| Citation | Requirement | MCC Applicability | Explanation |
|---|---|---|---|
| §60.1 | General applicability of the General Provisions | Yes | |
| §60.2 | Definitions | Yes | Additional terms defined in §60.4219. |

| | | | |
|---|---|---|---|
| §60.3 | Units and abbreviations | Yes | |
| §60.4 | Address | Yes | |
| §60.5 | Determination of construction or modification | Yes | |
| §60.6 | Review of plans | Yes | |
| §60.7 | Notification and Recordkeeping | Yes | Except that §60.7 only applies as specified in §60.4214(a). |
| §60.8 | Performance tests | Yes | Except that §60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified. |
| §60.9 | Availability of information | Yes | |
| §60.10 | State Authority | Yes | |
| §60.11 | Compliance with standards and maintenance requirements | No | Requirements are specified in subpart IIII. |
| §60.12 | Circumvention | Yes | |
| §60.13 | Monitoring requirements | Yes | Except that §60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder. |
| §60.14 | Modification | Yes | |
| §60.15 | Reconstruction | Yes | |
| §60.16 | Priority list | Yes | |
| §60.17 | Incorporations by reference | Yes | |
| §60.18 | General control device requirements | No | |
| §60.19 | General notification and reporting requirements | Yes | |

# Section C12: Emergency DRP Reciprocating Internal Combustion Engines, > 500bhp

## 40 CFR 60, Subpart IIII, NSPS for Stationary Compression Ignition Internal Combustion Engines

These engines shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

§60.4204(b)

- Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201(d) (see next item) for their 2007 model year & later stationary CI ICE

§60.4201(d)

- Stationary CI internal combustion engine manufacturers must certify nonemergency stationary CI ICE to the certification emission standards for new marine CI engines in 40 CFR 94.8. Per the NESHAP, new non-emergency engines greater than 500 BHP must meet the emission standards under 40 CFR 94.8. Table A-1 from 94.8 summarizes these emission standards. Engines 3 & 4 at MCC fall under Category 2 with an engine displacement >5.0 but <30 liters per cylinder. The model C18 engine has an 18L displacement and the C27 a 27L displacement.

§60.4206

- The owner and operator must operate and maintain stationary CI ICE to achieve the emission standards as required in §60.4204 over the entire life of the engine.

§60.4207(b)

- The engine must use diesel fuel that meets the requirements of 40 CFR 80.510(b).

§60.4209(a)

- You must install a non-resettable hour meter.

§60.4211(a)(1)

- Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions.

§60.4211(a)(2)

- Change only those emission-related settings that are permitted by the manufacturer.

§60.4211(a)(3)

- Meet the requirements of 40 CFR Part 94, as they apply to you.

§60.4211(c)

- You must purchase an engine certified to the emission standards in §60.4204(b), as applicable, for that model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications.

§60.4212(c)

- Exhaust emissions that are complying with the emission standards for new CI engines in 40 CFR 94.8 must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 94.8, determined from the following equation:

  NTE requirement for each pollutant = (1.25) × (STD) (Eq. 1)

  Where:

  STD = The standard specified for that pollutant in 40 CFR 94.8.

  Alternatively, you may follow the testing procedures specified in § 60.4213 of this subpart.

§60.4214(a)(1):

- Submit an initial notification within 30 days of starting construction, as required in § 60.7(a)(1).

§60.4214(a)(2):

- Keep records of the following information:
  - All notifications submitted to comply with this subpart and all documentation supporting any notification.
  - Maintenance conducted on the engine.
  - Documentation from the manufacturer that the engine is certified to meet the emission standards.

## Section C12: Emergency DRP Reciprocating Internal Combustion Engines, > 500 bhp

## 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines
## Summary of Applicable Requirements

| Citation | Requirement | Non-emergency, new (> 500 HP) |
|---|---|---|
| §63.6585 | Applicability | All stationary RICE |
| §63.6590(a) | Affected sources | New = after Dec. 19, 2002 |
| §63.6590(b) | Limited use engines—N/A | |
| §63.6590(c) | NSPS IIII engines—N/A | |
| §63.6595(b) | Area sources--Not applicable | |
| §63.6600 | Emission & operating limits | |
| §63.6600 | Limits for >500HP | Tables 2a and 2b |
| §63.6602 | Limits for <500HP | None |
| §63.6604 | Fuel requirements | Meet fuel req at compl. date |
| §63.6605 | Gen. duty minimize emissions | Applies |
| §63.6610(a) | Initial compl. testing >500HP | 180 days after compliance date |
| §63.6612(a) | Initial compl. testing < 500HP | None |
| §63.6615 | Subsequent performance tests | See Table 3 |
| §63.6620(a) | Perf. test & other procedures | See Tables 3 and 4 |
| §63.6620(b) | Percent load for testing | Test must be at 100% load |
| (c)-(e) | Test runs and equations | Per Tables 3 and 4 |
| (f)-(h) | If no catalyst, need petition | Per Tables 3 and 4, no catalyst |
| (i) | Measuring % load during test | Required, per above |
| §63.6625 | Monitoring and maint. req. | |
| §63.6625(a) | If you elect to install CEMS | Option for >500HP, lists req. |
| §63.6625(b) | If you elect to install CPMS | Option for >500HP, lists req. |
| §63.6625(e) | Follow manuf. O&M instr.<br>Develop maintenance plan | N/A |
| §63.6625(f) | Non-resettable hour meter | N/A |
| §63.6625(h) | Minimize idling time | Minimize, < 30 minutes |
| §63.6625(i) | Oil analysis program option | N/A |
| §63.6630 | Demonstrating initial compl. | |
| §63.6630(a) | IC for Table 5 requirements | Per Table 5 |
| §63.6630(b) | Operating limit during perf. Test | Per Table 2b |
| §63.6635 | Collecting CEMS/CPMS data | Continuously & other req. |
| §63.6640(a) | Demonstrating continuous compliance | For requirements in Tables 2a and 2b |

| | | |
|---|---|---|
| | | (emission/operating) |
| §63.6640(b) | Report each instance not meet | Required for Tables 2a and 2b |
| §63.6640(d) | Do not have to comply for first 200 hours for New/R | Do not have to comply for first 200 hours |
| §63.6640(e) | Report instances where not comply with Table 8 NESHAP Subpart A req. that apply | Required to report |
| §63.6640(f) | Emergency engine - limits on circumstances when can operate | N/A |
| §63.6645(a) | General notifications | All required |
| §63.6645(c) | Initial notification for New/R | 120 days after startup |
| §63.6645(d) | Initial notification for Existing | N/A |
| §63.6645(g) | Notification of compl. test | Required 60 days before |
| §63.6645(h) | Notification of compl. status | Required for Tables 4 and 5 |
| §63.6650(a) | Per Table 7 | Semiannual reports |
| §63.6650(b) | Per date in Table 7 | Per date in Table 7 [TBD] |
| §63.6650(c) | Information to be included | Malfunctions & other |
| §63.6650(e) | Info if using a CMS | See info specified |
| §63.6650(f) | Report in Title V SA report | Required |
| §63.6650(h) | Report to qualify as emerg. | N/A |
| §63.6655(a) | Records if subject to emission or operating limit | Records, incl. malfunctions, perf. tests, all maintenance |
| §63.6655(b) | For each CEMS or CPMS | All records per 63.8(d)(3) |
| §63.6655(d) | As required in Table 6 | Semiannual performance tests |
| §63.6655(e) | Maintenance records | N/A |
| §63.6655(f) | Hour meter records for emerg. | N/A |
| §63.6660 | Records in suitable form and readily accessible for 5 years | Applies |
| §63.6665 | Compliance with NESHAP Subpart A, General, per Table 8 | Applies |

## Section C13:
## 40 CFR 82, Protection of Stratospheric Ozone
## Requirements for Refrigeration Units with <50 lbs Refrigerant

The ODS containing equipment still needs to be serviced by licensed technicians and disposed of properly, per the paragraph below from §82.150(b), which covers every ODS containing device, regardless of size:

§**82.150**
This subpart applies to any person servicing, maintaining, or repairing appliances. This subpart also applies to persons disposing of appliances, including small appliances and motor vehicle air conditioners. In addition, this subpart applies to refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II refrigerants.