



Georgia-Pacific Gypsum LLC
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Submitted via NJDEP Online Business Portal

March 7, 2023

Mr. Danny Wong
New Jersey Department of Environmental Protection
Bureau of Stationary Sources
401 E. State Street, 2nd floor
P.O. Box 420
Mail Code 401-02
Trenton, NJ 08625-0420

**Re: Georgia-Pacific Gypsum LLC
Camden, NJ
Program Interest No. 51611
Significant Modification Permit Application for Operating Permit BOP190005**

Dear Mr. Wong:

Georgia-Pacific Gypsum LLC (GP) owns and operates a gypsum plaster manufacturing plant in the City of Camden, Camden County, New Jersey (referred to as the Camden Plant). The Camden Plant is currently a major stationary source under New Jersey Administrative Code (N.J.A.C.) Title 7, Chapter 27, Subchapter 22 and operates under Title V Operating Permit (TVOP) No. BOP190005 issued on November 30, 2021.

This document represents a Significant Modification Permit Application, through which GP is seeking to re-permit the Camden Plant as a non-major source, in accordance with NJDEP policy guidance: *“Procedure for a Facility with an Existing Operating Permit to Become a Non-Major Facility”*¹ and in accordance with N.J.A.C. 7:27-22.

Please note that Georgia-Pacific is aware of the current Administrative Order (AO 2021-25) for Environmental Justice (EJ) that exists until the EJ regulations are duly promulgated. We believe that this application is not subject to the AO (and would not be subject to the EJ regulations if promulgated as currently proposed) because it is not a renewal application and is not seeking authorization for a facility expansion (as it does not reflect a “modification or expansion of existing operations or footprint of development” as defined under the proposed EJ regulations). Nevertheless, we plan to reach out to one or more Camden-based community representatives to brief them on the application and answer questions.

¹ *“Procedure for a Facility with an Existing Operating Permit to Become a Non-Major Facility.”*
Available at: <https://www.state.nj.us/dep/aqpp/permitguide/nonmajor.pdf>. Accessed on May 26, 2022.

GP has used NJDEP's RADIUS software to submit the application and has submitted and certified the required files electronically through NJDEP's Online Business Portal. A copy of the RADIUS forms are included with this letter as Attachment H.

Facility and Process Description

The Camden Plant is located at 1101 South Front Street in the City of Camden, Camden County, New Jersey. The facility is categorized under the Standard Industrial Classification (SIC) code 3275 and North American Industry Classification System (NAICS) code 327420 for gypsum product manufacturing. The Camden Plant manufactures various types of gypsum products, including screened gypsum rock, ground gypsum, and calcined gypsum. The facility is currently classified as a "major facility" as defined in N.J.A.C. 7:27-22.1 based solely on the site's potential to emit (PTE) of nitrogen oxides (NO_x). Details of the manufacturing processes at the Camden Plant are included in the process description in Attachment A, and process flow diagrams are included as Attachment B.

Project Description

GP is proposing to remove equipment from TVOP No. BOP190005 and to accept federally enforceable emissions limitations that will make the facility a Non-Major source. In addition, other administrative corrections and updates are proposed as part of this application as detailed in Attachments D and E.

As per NJDEP guidance, the procedure to make a facility Non-Major is twofold, where:

- GP is including emissions reductions such that Facility-wide emissions will be below major threshold limits including all significant and insignificant sources.
- NJDEP will review this application and make the requested changes to the Operating Permit pursuant to the rule requirements of N.J.A.C. 7:27-22.

GP will continue to operate under existing TVOP No. BOP190005, until this significant modification application is approved by NJDEP. Then, GP will proceed with terminating the Title V permit and, in parallel, will obtain the suitable Preconstruction Permits (PCPs) and/or General Permits, pursuant to N.J.A.C. 7:27-8 under a new minor source facility ID number.

Modifications Submitted with Previous Permitting Actions

GP submitted an application to renew its TVOP in May 2019. Through ongoing conversations between NJDEP and GP, NJDEP was made aware of GP's intent to change the status of the facility to Non-Major. As a result, NJDEP paused its review of the TVOP renewal application and requested that this application address all requested changes to the permit (i.e., those included in any pending applications as well as any new requests).

Attachments Submitted with the Application

GP is including the following attachments with this application:

- **Attachment A: Process Description** – provides an overview of the facility operations and a description of the gypsum plaster manufacturing process including insignificant source operations.
- **Attachment B: Process Flow Diagrams** – provides the updated process flow diagrams that reflect the current configuration of the facility operations.
- **Attachment C: Regulatory Review** – presents a discussion on applicability of federal and New Jersey air quality regulations to the plant's operations.
- **Attachment D: Summary of Changes** – provides a list of all changes to be included in the application in a tabular format. This summary combines both the current requested changes and the previously requested changes listed in the BOP190004 permit modification application, which was withdrawn.
- **Attachment E: Permit Markup** – provides the markup version of the permit with the proposed changes provided in this application.
- **Attachment F: Emissions Calculations** – provides an overview of the PTE for both the significant and insignificant emissions units at the facility, and the emissions data relied upon for the application. A facility-wide PTE summary table is provided in Attachment F.
- **Attachment G: Netting Analysis** – provides a netting analysis as required by NJDEP to demonstrate that the Facility is below the significant net emission increase thresholds in accordance with N.J.A.C. 7:27-18.7, Table 3.
- **Attachment H: NJDEP RADIUS** – provides the application as submitted and certified through NJDEP's Online Business Portal.

GP understands that upon receipt of this application, NJDEP will assess and invoice the facility for the applicable permitting fees, pursuant to N.J.A.C. 7:27-8.6, Table A-2.

GP appreciates your review of this application. If you have any questions about this submittal, please contact Ben Chantz, our Environmental Manager, at 856-536-0725 or Benjamin.Chantz@gapac.com.

Sincerely,



3/7/23

Kevin Coggins
Plant Manager

cc: Andrea Missildine (GP)
Ben Chantz (GP)

Attachments:

- Attachment A – Process Description
- Attachment B – Process Flow Diagrams
- Attachment C – Regulatory Review
- Attachment D – Summary of Changes
- Attachment E – Permit Markup
- Attachment F – Emissions Calculations
- Attachment G – Netting Analysis
- Attachment H – NJDEP RADIUS

**ATTACHMENT A –
PROCESS DESCRIPTION**

Process Description

The Camden Plant manufactures various types of gypsum products, including screened gypsum rock, ground gypsum, and calcined gypsum, and is categorized under the Standard Industrial Classification (SIC) code 3275 and North American Industry Classification System (NAICS) code 327420 for gypsum product manufacturing. This section includes a description of the gypsum plaster and resin extrusion production processes at the Plant and describes only equipment proposed to remain in the permit following approval of this application. Process flow diagrams for plant operations are provided in Attachment B.

Rock Delivery, Crushing & Conveying

The major raw material utilized by the Camden Plant is gypsum rock. Material is transported to the Camden Plant via truck (FG1) and is stockpiled (FG2) onsite prior to being introduced into the process. The Camden Plant is also capable of using recycled gypsum wallboard as a rock substitute that is stored in a separate area of the stockpile (FG2) and introduced separately. A front-end loader drops gypsum rock from the storage pile (FG2) onto an underground bar feeder (E124) and #6 (Crumb) Belt Conveyor (E125) that feeds the underground #7 Belt Conveyor (E107) leading to the aboveground #8 Belt Conveyor (E108). The material then drops into the Wobbler Separator (E111) that in turn feeds the Gyratory Crusher (E110) where it is reduced in size and then transferred to the #9 Belt Conveyor (E110). Material can also bypass the Gyratory Crusher and go directly to the #9 Belt Conveyor. Recycled gypsum wallboard can be introduced via the Reclaim Feeder (E40) and Reclaim Belt Conveyor (E104), which also feeds the #9 Belt Conveyor. The gypsum is transferred from the #9 Belt Conveyor to the #10 Belt Conveyor (E109) to #11 Belt Conveyor (E47). The #11 Belt Conveyor is reversible and transfers material into both Rock Storage Bin 1 (E45) and Rock Storage Bin 2 (E46). The transfer points from the #11 Belt Conveyor to the bins are directed into the Blender and Packer Dust Collector (CD26).

Grinding & Landplaster Production

Material to be processed in Raymond Mill #1 (E24) is stored in and transferred from Rock Storage Bin 1 (E45). Material to be processed in Raymond Mill #2 (E25) is stored in and transferred from Rock Storage Bin 2 (E46). The milling operation begins with a shaker tray that discharges gypsum from the bins and into the star feeders of the respective Raymond Mill (E122 and E123, respectively). Differential pressure through a process classifier cyclone drives the demand for heat input on the burner and whizzer (feed) speed to move material through the mill and reduces free-moisture of the rock. The exhaust of each process classifier cyclone and burner is vented through a Raymond Mill dust collector (CD16 and CD18, respectively). Following grinding in the Raymond mills, material is considered landplaster (LP). Screw conveyors transfer material to LP Bins #1 (E27), #2 (E28), #3 (E29), or #4 (E14). LP Bins #1-3 feed the kettles, described below. LP Bin #4 feeds, via screw conveyor, the LP Loading Spout (E38) positioned outside for the bulk loading of open-top LP Trucks. This landplaster product is sold as a finished product. The spout is double-walled so that displaced dust is captured by a booster fan and transferred to the LP Bin #4 Dust Collector (CD6).

Calcining & Stucco Production

Landplaster becomes “stucco” after calcining in a kettle calciner. Calcining is the process of heating gypsum to remove chemically bound water (dehydration of calcium sulfate). The Camden Plant has three kettle calciners; Kettle Calciner #1 (E3), Kettle Calciner #2 (E4) and Kettle Calciner #3 (E5) that are supplied by three storage bins: LP Bin #1 (E27), LP Bin #2 (E28), and LP Bin #3 (E29). Each LP Bin exhausts to a dust collector (CD20, CD21, and CD22, respectively) from displaced air as the bins are loaded with material. PM emissions from each kettle are controlled by the respective kettle dust collector (CD1, CD2, CD3). Stucco is transferred from the kettles to Hot Pits #1, #2, and #3 where the stucco is allowed to cool before being transferred further in the process. The kettles may eject material to the Reject Bin (E75) for recycling/reclaiming. The hot pits and remaining stucco manufacturing equipment exhaust combines and is controlled by the Stucco Cooling Dust Collector (CD24). Screw conveyors and bucket elevators move stucco from the hot pits through the Barrel Separator (E106) that filters paper waste from the stucco with a bypass option to Stucco Reserve Bin #1 (E22) and Stucco Reserve Bin #2 (E51). Stucco from the stucco reserve bins is sent through the Bulk Stucco Handling Sifter (E58) before it is sent to the Bulk Stucco Loading Spout (E71) positioned outside for the bulk loading of closed-top stucco trucks. This stucco product is sold as fireproofing material. The spout is double-walled so that displaced dust is captured by a booster fan and transferred to the Dust Collector (C24).

Milling & Plaster Production

Size reduction of stucco produces plaster, also known as molding plaster. The Plaster conversion process begins with stucco material from a batch kettle. Stucco is transported through screw conveyors and the Impact Mill Bin Feed Elevator (E60) to the Impact Mill Feed Bin (E52) which stores material to be discharged to the Impact Mill Rotary Screen (E50), where larger material is screened out of the material stream. Material is then transferred through screw conveyors to Impact Mill #1 (E49) and Impact Mill #2 (E70). Molding Plaster Bin Elevator (E61) transports material to be stored in the Molding Plaster Bin (E30). This product can be sold as-is or can be further processed.

Blending & Floor Underlayment Production

The manufacturing of the floor underlayment product begins with the blending of raw materials. Molding and other industrial plasters, Portland cement, and various additives are supplied by the Molding Plaster Bin (E30), the Portland Cement Bin (E26), and Alpha Feed Bin (E42) to the Bulk Plaster Blender and Weigher (E44) for each batch of floor underlayment manufactured. PM emissions from each raw material bin are controlled by a bin vent (CD23, CD19, and CD25, respectively). An operator supplies the remaining raw materials manually to an entry point on the blender. In some cases, the shipment or storage process causes lumps to form in raw material bags. The Delumper (E114) processes bulk material to restore the original uniformity in material size. Following blending, the batch is packed into bags by Bag Packer #1 (E43), Bag Packer # 2 (E102), or the Bulk Bagger (E103) for sale to offsite customers. Dust is controlled for this system by the Blender/Packer Dust Collector (CD26). Portland cement is received by tanker truck and blown into the Portland Cement Bin. Dust from this system is controlled by the Portland Cement Bin Dust Collector (CD19). Alpha is received by railcar,

pressurized, and blown to the Alpha Feed Bin. Dust is controlled for this system by the Alpha Bin Dust Collector (CD25).

Soundmat Production

Resin pellets are delivered to the Plant in boxes, bags or totes and can be stored in a silo or fed directly to the process. The resin pellets are transferred with a Vacuum Loader (E115) which directs the pellets into a Hopper Dryer (E116). The Hopper Dryer is electrically heated to remove residual moisture from the resin pellets. The dried resin pellets are then directed into the top of the single screw resin extruder. Pigment Feeders 1 and 2 (E117 and E118) are manually fed with pigmented resin chips through a separate chute into the extruder to provide coloration for some of the extruded product.

The resin pellets travel through the electrically heated barrel of the single screw extruder. The extruder is heated to a temperature of approximately 230 degrees Centigrade (446 degrees Fahrenheit). An electrostatic precipitator (ESP) (CD40) controls any particulate generated by the Resin Extruder. The resin pellets are softened to a specific viscosity so the material can be pushed through the extrusion die head, forming the resin into a rectangular-shaped mat. As the mat exits the extruder die head, a non-woven fabric is unwound from a reel to form the underlying substrate that adheres to the resin mat. The resin mat with substrate is directed through a water tank cooling and forming system that helps to shape the final form of the resin mat product.

The resin mat is then directed through a piece of dewatering equipment to remove any residual water and then through a cutting and slitting machine to cut the mat into customer-specified sizes. Finally, the resin product mat is wound-up on a reel readied for shipment to off-site customers.

Shipping/Receiving & Warehousing

In addition to shipping the manufactured goods (floor underlayment and Soundmat), the facility receives wallboard manufactured offsite. Wallboard is delivered by rail and then staged in the warehouse at the Camden Plant. The shipping department sends out wallboard via flatbed truck.

Insignificant Source Operations

There are a number of insignificant source operations at the Camden Plant based on the type of source, capacity, production rate, or other operational parameters. Any changes to the insignificant activities listed in the current Title V permit must be listed in the significant modification application.

The Camden Plant requests to add the existing Bake-Off Oven (IS27) and Autowinder Splicer (IS28) to the permit as insignificant sources. Per N.J.A.C 7:27-22.1, these units do not meet the definition of a “significant source operation” since the weight of raw materials does not exceed 50 lb/hr.

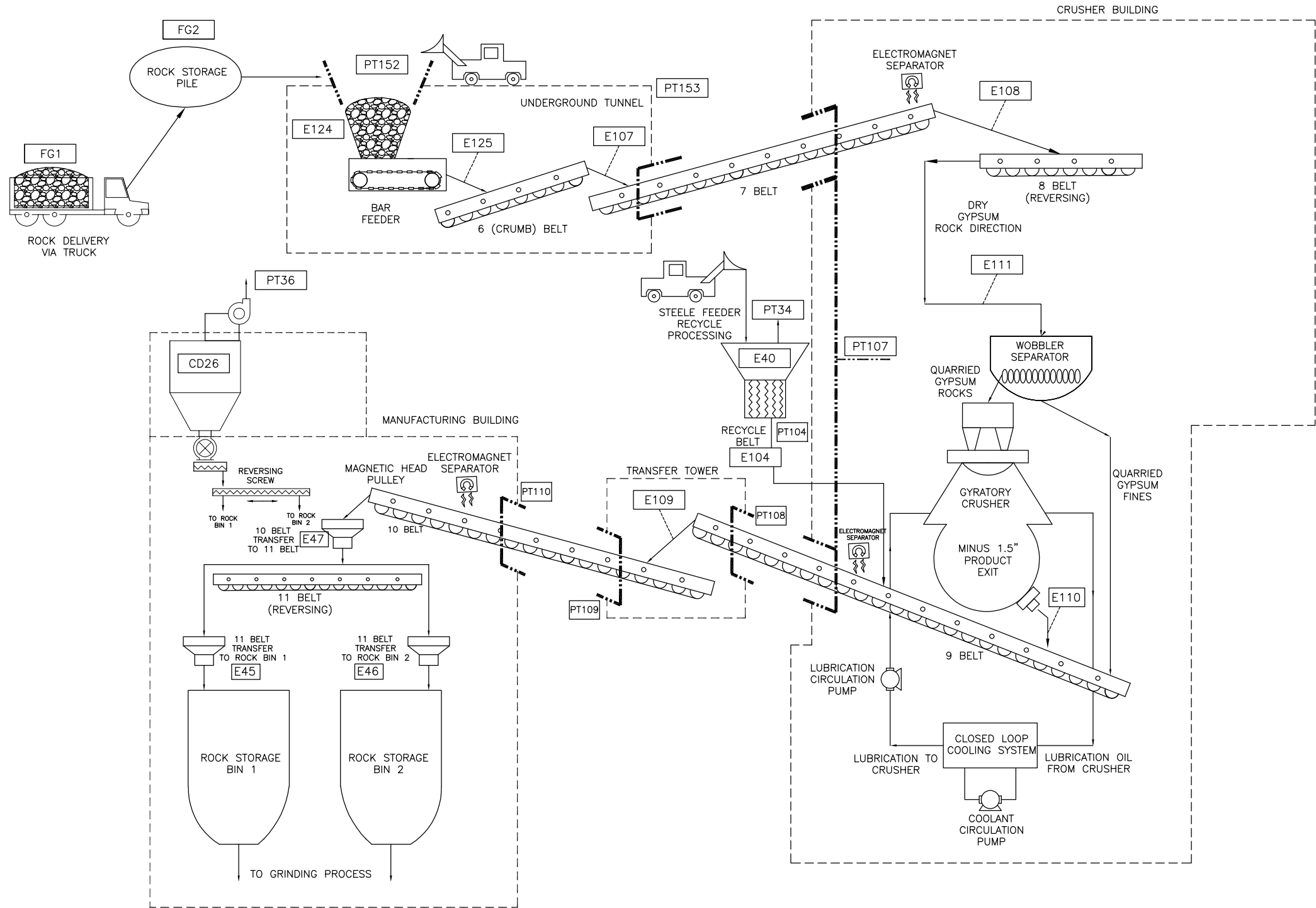
The Bake-Off Oven is used to clean the extrusion die heads associated with the Resin Extruder (U54). The operation of the Resin Extruder results in a build-up of residual resin in the

openings of the metal die head plate inside of the resin extruder. Over time, the build-up of resin can block the flow of melted resin through the plate, which results in non-uniformity of the finished soundmat product.

The Autowinder Splicer is a cutting and slitting machine associated with the Resin Extruder (U54). This unit replaced both the slitters (IS24) and cross-cutters (IS25), which were formerly associated with the Soundmat process and have been removed from the Facility.


Emissions calculations for the Bake-Off Oven and Autowinder Splicer are included in Attachment F. Other changes that have been made to the insignificant sources currently represented in the Title V permit include the removal of several insignificant sources from the Facility. A full summary of these changes is provided in Attachment D.

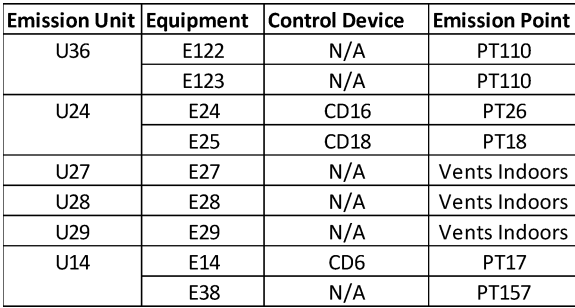
**ATTACHMENT B –
PROCESS FLOW DIAGRAMS**



Emission Unit	Equipment	Control Device	Emission Point
FG1	N/A	N/A	N/A
FG2	N/A	N/A	N/A
U51	E124	N/A	PT152
	E125	N/A	PT153
	E107	N/A	PT153
	E108	N/A	PT107
	E111	N/A	PT107
	E110	N/A	PT107
	E109	N/A	PT108 PT109
U36	E47	CD26	PT36
	E45		
	E46		

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NO.	REVISIONS			BY	DATE	APP'D. BY
<div><div><div></div><div><div>Georgia-Pacific</div><div>Georgia-Pacific Gypsum LLC</div><div>Atlanta, Georgia</div></div></div></div>						
PLANT LOCATION: CAMDEN, NJ				PROJECT NO.		
PROCESS FLOW DIAGRAM ROCK HANDLING SYSTEM						
DRAWN BY: MSH	SCALE: DNS	DRAWING NUMBER			REV. NO.	
CHECKED BY:	DATE: 02-21-23	ROCK HANDLING				
APPROVED BY:	LOCATION: NJ022				SHEET:	

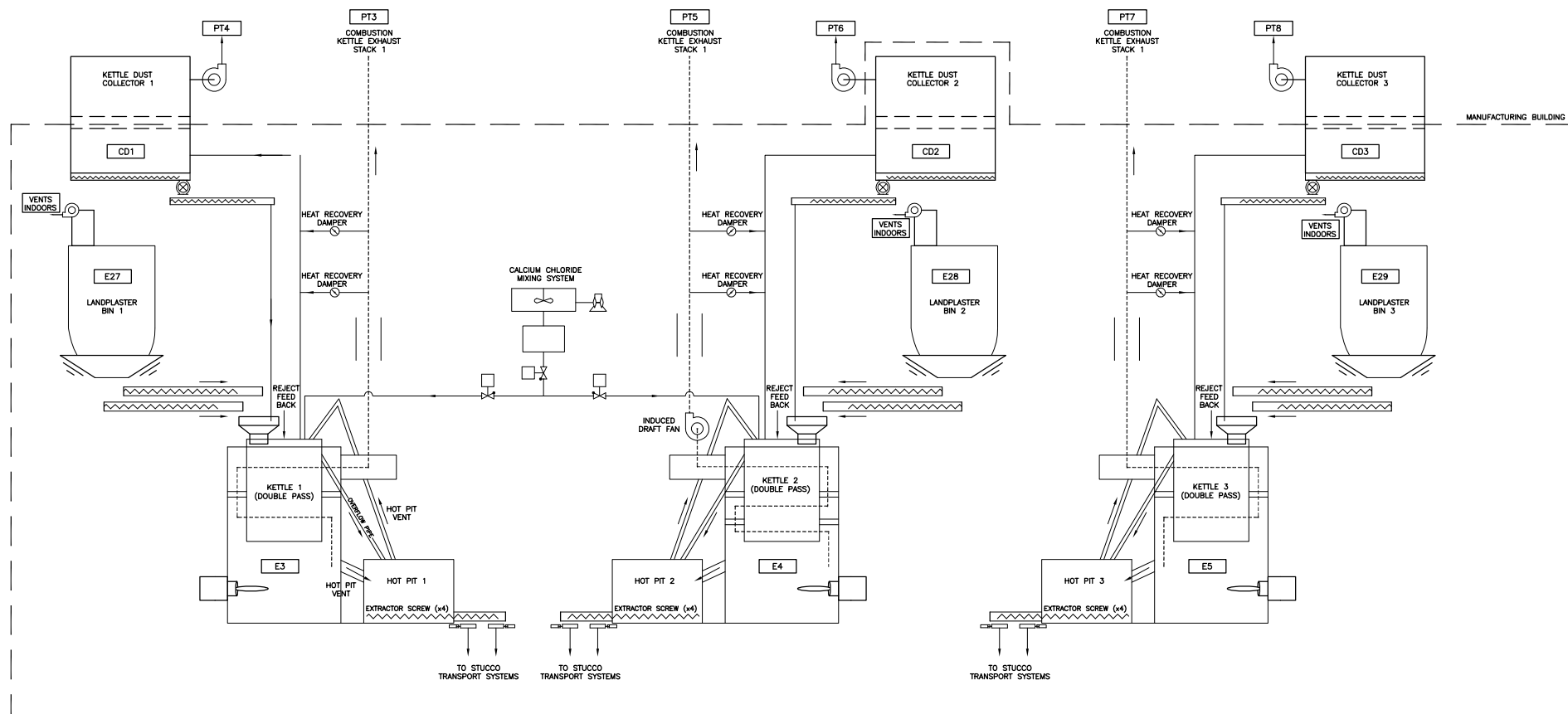


 **Georgia-Pacific**
Georgia-Pacific Gypsum LLC
Atlanta, Georgia

PROCESS FLOW DIAGRAM
LANDPLASTER PRODUCTION MILL


DRAWN BY: MSH		SCALE: DNS	DRAWING NUMBER	F
CHECKED BY:	DATE: 02-21-23	<div style="text-align: center;"> <h1>LANDPLASTER</h1> <p>SHEET:</p> </div>		
APPROVED BY:	LOCATION: NJ022			

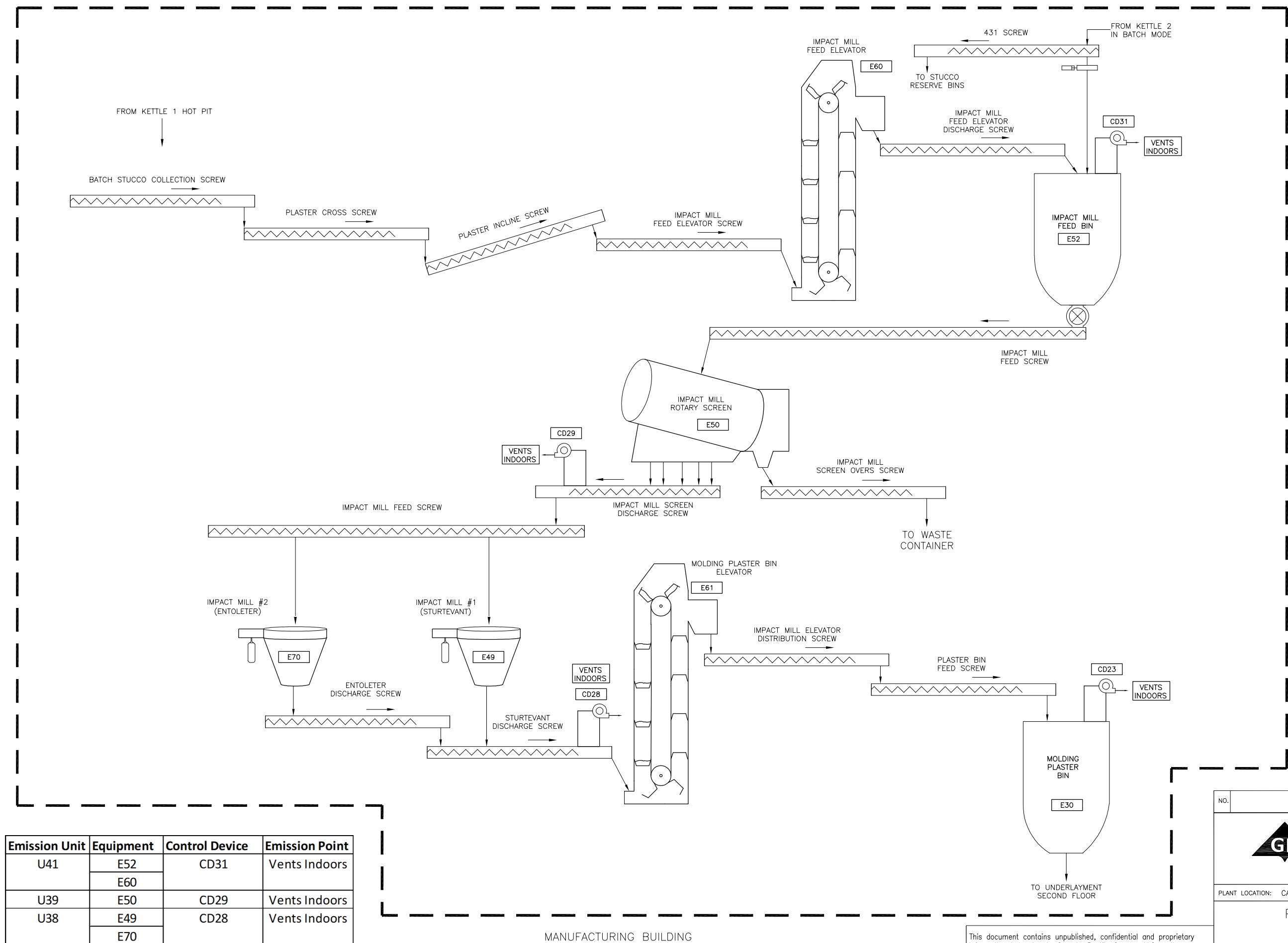
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Emission Unit	Equipment	Control Device	Emission Point
U2	E3	CD1	PT3
			PT4
	E4	CD2	PT5
			PT6
	E5	CD3	PT7
			PT8
U27	E27	CD20	VENTS INDOORS
U28	E28	CD21	VENTS INDOORS
U29	E29	CD22	VENTS INDOORS


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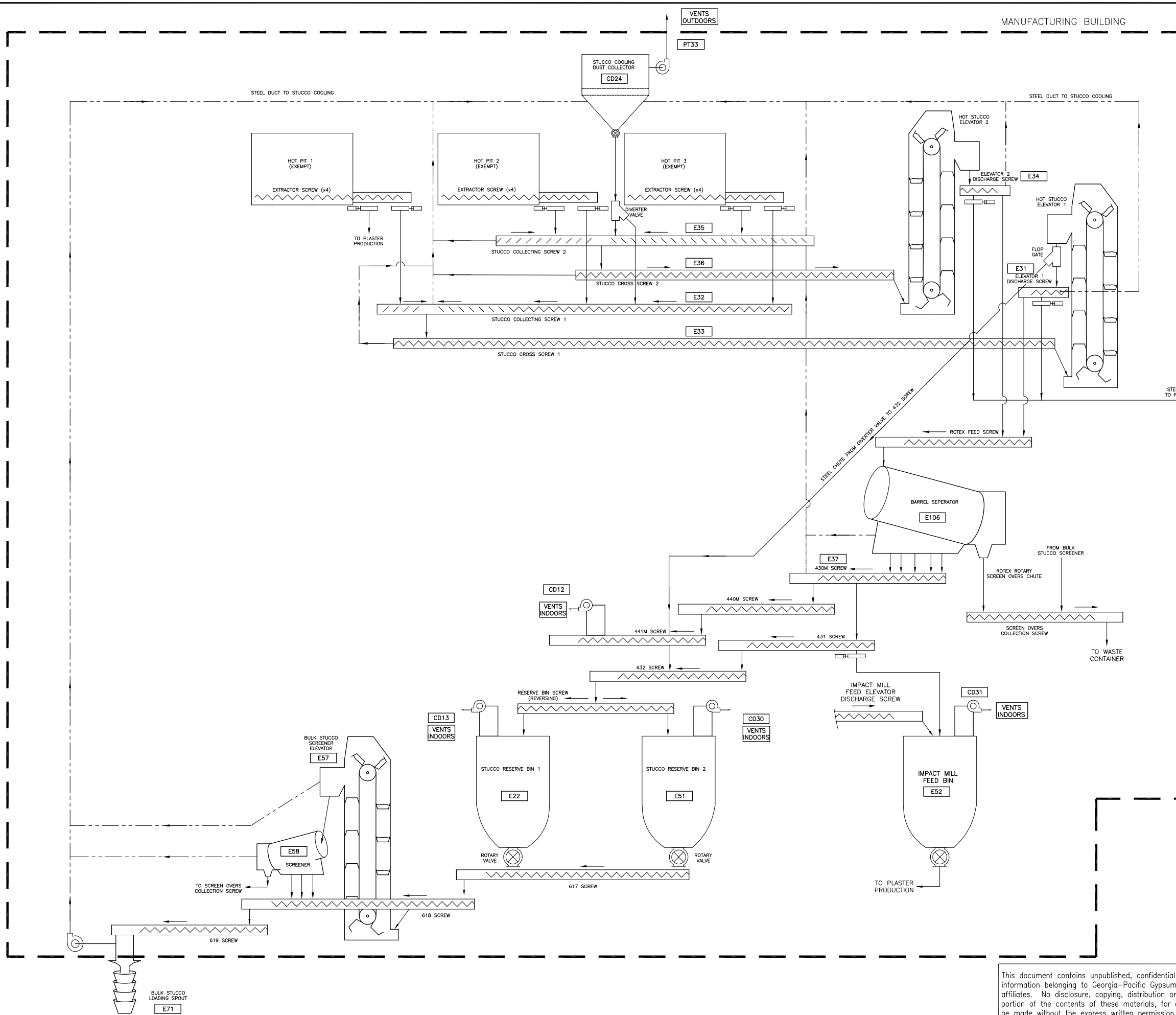
NO.	REVISIONS	BY	DATE	APP'D BY
 Georgia-Pacific Georgia-Pacific Gypsum LLC Atlanta, Georgia				
PLANT LOCATION: CAMDEN, NJ		PROJECT NO.		
PROCESS FLOW DIAGRAM CALCINING PRODUCTION				
DRAWN BY: MSH	SCALE: DNS	DRAWING NUMBER		REV. NO.
CHECKED BY:	DATE: 02-21-23	CALCINING		
APPROVED BY:	LOCATION: NJ022	SHEET:		



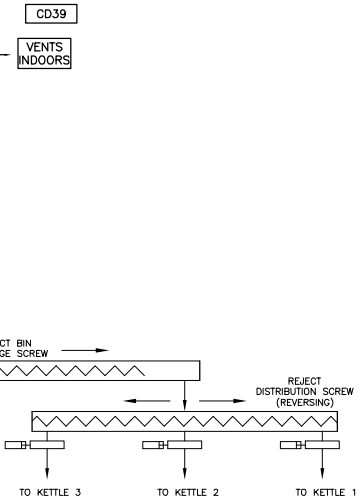
Emission Unit	Equipment	Control Device	Emission Point
U41	E52	CD31	Vents Indoors
	E60		
U39	E50	CD29	Vents Indoors
U38	E49	CD28	Vents Indoors
	E70		
U30	E30	CD23	Vents Indoors
	E61		

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PLANT LOCATION: CAMDEN, NJ			PROJECT NO.		
PROCESS FLOW DIAGRAM PLASTER PRODUCTION					
DRAWN BY: MSH	SCALE: DNS	DRAWING NUMBER		REV. NO.	
CHECKED BY:	DATE: 02-21-23	PLASTER		SHEET:	
APPROVED BY:	LOCATION: NJ022				



Emission Unit	Equipment	Control Device	Emission Point
U31	E35	CD24	PT33
	E36		
	E32		
	E33		
	E34		
	E31		
	E106		
	E37		
	E57		
	E58		
	E71		
U22	E22	CD13	Vents Indoors
U40	E51	CD30	Vents Indoors
U47	E75	CD39	Vents Indoors
U41	E52	CD31	Vents Indoors



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BY

DATE

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Georgia-Pacific

Georgia-Pacific Gypsum LLC

Atlanta, Georgia

PLANT LOCATION: CAMDEN, NJ

PROJECT NO.

PROCESS FLOW DIAGRAM

MILL STUCCO HANDLING

DRAWN BY: MSH

SCALE: DNS

DRAWING NUMBER

REV. NO.

CHECKED BY:

DATE: 02-21-23

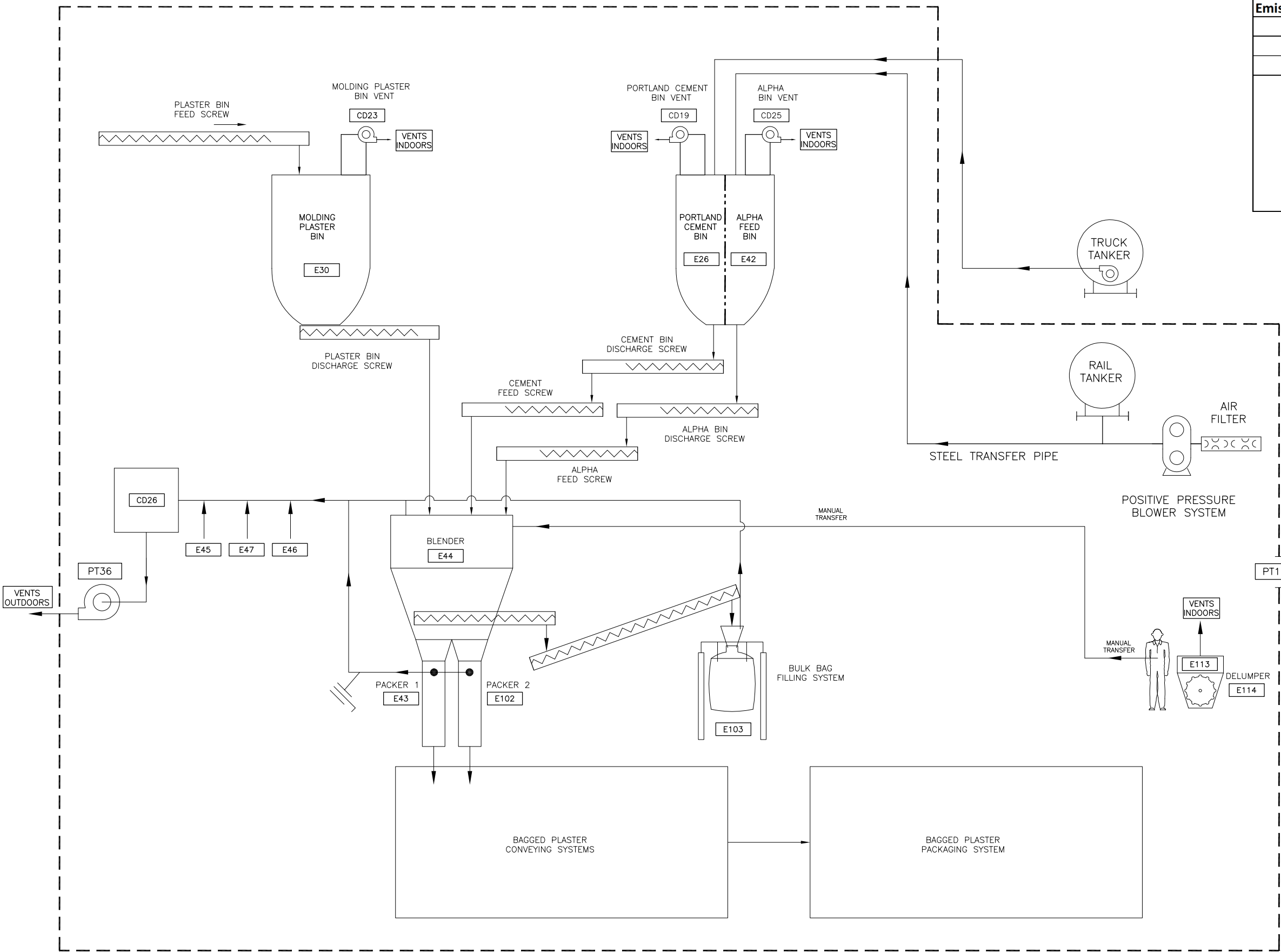
STUCCO HANDLING

APPROVED BY:

LOCATION: NJ022


SHEET:

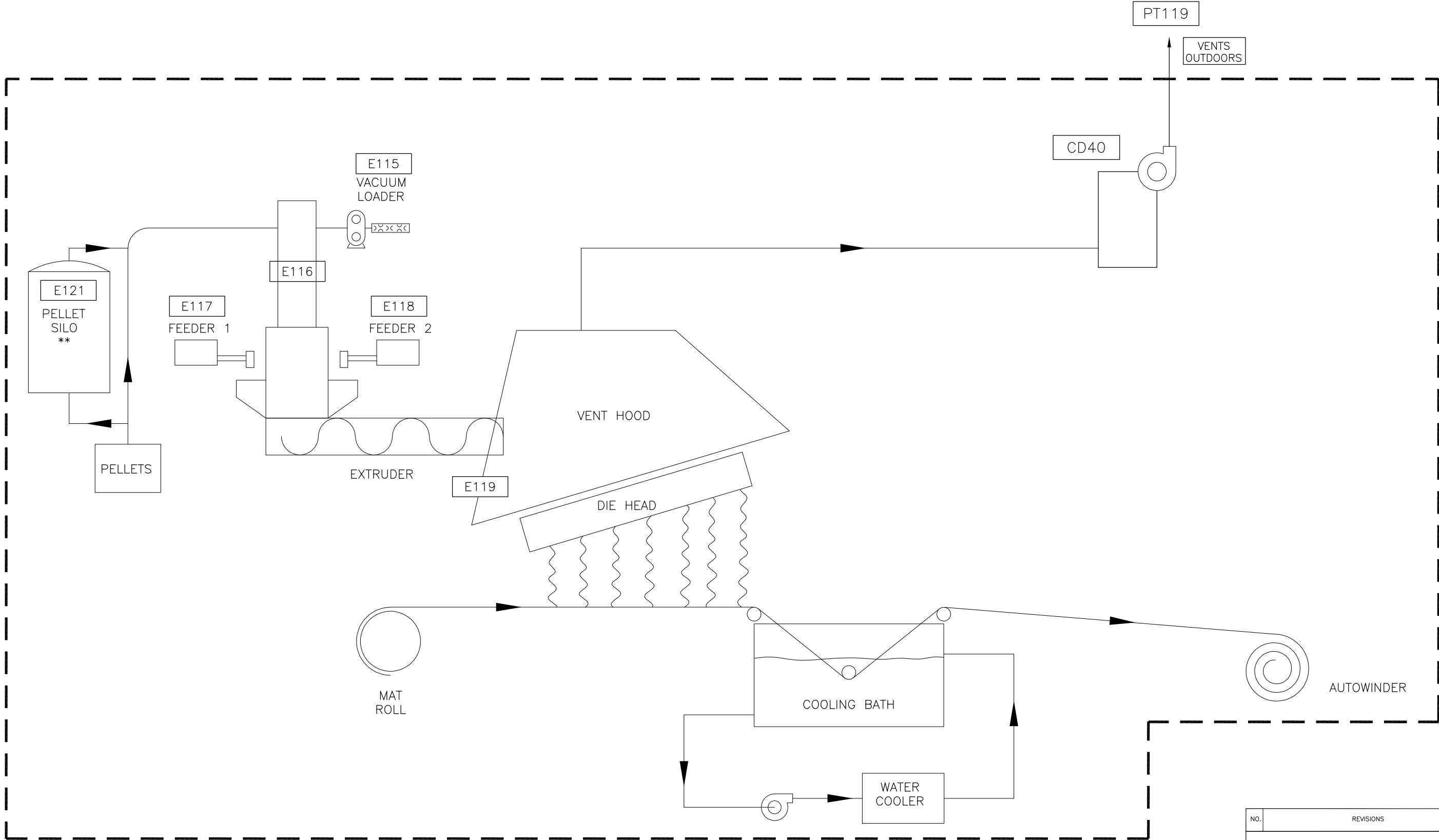
MANUFACTURING BUILDING



Emission Unit	Equipment	Control Device	Emission Point
U30	E30	CD23	Vents Indoors
U26	E26	CD19	Vents Indoors
U35	E42	CD25	Vents Indoors
U36	E44	CD26	PT36
	E43		
	E102		
	E103		
	E45		
	E46		
	E47		

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PLANT LOCATION: CAMDEN, NJ				PROJECT NO.		
PROCESS FLOW DIAGRAM UNDERLAYMENT PRODUCTION						
DRAWN BY: MSH	SCALE: DNS	DRAWING NUMBER			REV. NO.	
CHECKED BY:	DATE: 02-21-23	UNDERLAYMENT				
APPROVED BY:	LOCATION: NJ022	SHEET:				




Emission Unit	Equipment	Control Device	Emission Point
U54	E121	CD41/CD42/CD43	PT151
	E11	N/A	PT115
	E116	N/A	
	E117	N/A	
	E118	N/A	
	E119	CD40	PT119
	E120	N/A	PT120

NOTE: COOLING TOWER E120 NOT YET CONSTRUCTED

** CONSTRUCTION NOT YET COMPLETE

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PLANT LOCATION: CAMDEN, NJ			PROJECT NO.		
PROCESS FLOW DIAGRAM SOUND MAT LINE					
DRAWN BY: MSH	SCALE: DNS	DRAWING NUMBER			REV. NO.
CHECKED BY:	DATE: 02-21-23	SOUND MAT			
APPROVED BY:	LOCATION: NJ022	SHEET:			

**ATTACHMENT C –
REGULATORY REVIEW**

Table C-1
Regulatory Review
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

Federal and state (NJDEP) air quality regulations were reviewed to determine potentially applicable regulations for the facility's emissions units that are proposed to remain in the permit (i.e. not proposed for removal). The regulations that potentially apply to the facility are identified in the following subsections.

Rule	Citation(s)	Applicable Emissions Unit/ Source Name	Description	Applicable?	Reason
Federal Regulations					
Major Source Operating Permit Program	40 CFR Part 70; N.J.A.C 7:27-22	Facility-Wide	40 CFR Part 70 establishes the federal Title V operating permit program. NJDEP has incorporated the provisions of this federal program under New Jersey Administrative Code Title 7, Chapter 27, Subchapter 22, Operating Permits (N.J.A.C 7:27-22).	Yes (until Termination of the Part 70 Permit)	With this modification application, GP proposes to remove equipment from TVOP No. 190005 and accept federally enforceable limits such that the facility will not be considered a major source. Consistent with NJDEP guidance, the Camden Plant will continue to operate under the operating permit until the permit is terminated and PCP permit(s) issued.
Federal New Source Review Permit Program	40 CFR §52.21; N.J.A.C. 7:27-18	Facility-Wide	The air quality in Camden County has been designated by the U.S. EPA as "attainment" or "unclassifiable/attainment" for all criteria pollutants except for the 2015 8-hour ozone NAAQS where Camden County is classified as a marginal nonattainment area. Therefore, the major source construction permitting programs potentially applicable to the facility are Nonattainment New Source Review (NNSR) for ozone and Prevention of Significant Deterioration (PSD) permitting program for all other criteria pollutants.	No	The Camden Plant is a minor source under the PSD permitting program, since emissions of all criteria pollutants are less than 250 tpy and gypsum plaster manufacturing plants are not one of the 28 listed industrial source categories in 40 CFR §52.21(b)(1)(i). The facility will remain a minor source with respect to the PSD permitting program based on the emission rate calculations presented in this application. With this modification application, GP proposes to remove equipment from TVOP No. 190005 and accept federally enforceable limits such that sitewide NOx emissions will be less than 25 tpy and the Camden Plant will be considered a minor source with respect to the NNSR permitting program.
New Source Performance Standards	40 CFR Part 60, Subpart A	Facility-Wide	All affected facilities under a specific NSPS are subject to the general provisions of NSPS Subpart A unless specifically excluded by the source-specific NSPS. Subpart A requires initial notification and performance testing, recordkeeping, and monitoring and provides reference methods and mandates general control device requirements for all other subparts as applicable.	Yes	The Camden Plant owns and operates certain equipment that includes "affected facilities" under two NSPS. Therefore, the requirements of NSPS Subpart A apply.
New Source Performance Standards	40 CFR Part 60, Subpart Kb	Storage Tanks	NSPS Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels, regulates storage vessels with a capacity greater than or equal to 75 cubic meters (m ³) (19,813 gallons) that are used to store volatile organic liquids for which construction, reconstruction, or modification is commenced after July 23, 1984.	No	None of the operational storage tanks at the Camden Plant have a capacity greater than 75 m ³ . Therefore, the requirements of NSPS Subpart Kb do not apply.

Table C-1
Regulatory Review
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

Federal and state (NJDEP) air quality regulations were reviewed to determine potentially applicable regulations for the facility's emissions units that are proposed to remain in the permit (i.e. not proposed for removal). The regulations that potentially apply to the facility are identified in the following subsections.

Rule	Citation(s)	Applicable Emissions Unit/ Source Name	Description	Applicable?	Reason
New Source Performance Standards	40 CFR Part 60, Subpart OOO	See Table C-2	NSPS Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants, provides performance standards for fixed or portable nonmetallic mineral processing plants that commenced construction, modification, or reconstruction after August 31, 1983. The provisions of Subpart OOO apply to the following “affected facilities” in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station.	Yes	The Camden Plant crushes and grinds gypsum and therefore meets the definition of a nonmetallic mineral processing plant. See Table C-2 for the affected sources owned and operated by the facility.
New Source Performance Standards	40 CFR Part 60, Subpart UUU	See Table C-3	NSPS Subpart UUU, Standards of Performance for Calciners and Dryers in Mineral Industries, provides performance standards for each calciner and dryer at a mineral processing plant that commenced construction, modification, or reconstruction after April 23, 1986.	Yes	The Camden Plant operates calciners at a mineral processing plant. See Table C-3 for the affected sources owned and operated by the facility.
New Source Performance Standards	40 CFR Part 60, Subpart IIII	Facility-Wide	NSPS Subpart IIII provides performance standards for stationary compression ignition engines (including emergency engines) that commence reconstruction or modification after the proposal date of July 11, 2005 or construction of a new engine after April 1, 2006.	No	The Camden Plant does not have any stationary compression ignition engines on site. Contractors may bring portable equipment on-site temporarily; however, as these are not stationary sources, NSPS Subpart IIII is not applicable.
New Source Performance Standards	40 CFR Part 60, Subpart JJJJ	Facility-Wide	NSPS Subpart JJJJ provides performance standards for stationary spark ignition engines (including emergency engines) that commence reconstruction or modification after the proposal date of June 12, 2006 or construction of a new engine after July 1, 2007.	No	The Camden Plant does not have any stationary spark ignition engines on site. Contractors may bring portable equipment on-site temporarily; however, as these are not stationary sources, NSPS Subpart JJJJ is not applicable.

Table C-1
Regulatory Review
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

Federal and state (NJDEP) air quality regulations were reviewed to determine potentially applicable regulations for the facility's emissions units that are proposed to remain in the permit (i.e. not proposed for removal). The regulations that potentially apply to the facility are identified in the following subsections.

Rule	Citation(s)	Applicable Emissions Unit/ Source Name	Description	Applicable?	Reason
National Emission Standards for Hazardous Air Pollutants	40 CFR Parts 61 and 63	Facility-Wide	NESHAPs are emission standards for hazardous air pollutants (HAPs) that apply to major sources of HAPs (facilities that exceed the major source thresholds of 10 tpy of a single HAP or 25 tpy of any combination of HAPs) or specifically designated area sources under Part 63. The Part 63 NESHAPs apply to sources in specifically regulated industrial source classifications (Clean Air Act Section 112(d)) or on a case-by-case basis (Clean Air Act Sections 112(g) and 112(j)) where U.S. EPA has failed to promulgate a 112(d) standard. Pollutant-specific NESHAPs under Part 61 may also be applicable.	No	No maximum allowable control technology (MACT) standards have been promulgated for the gypsum manufacturing industry. Furthermore, case-by-case MACT does not apply to this application as no construction or reconstruction of HAP-major processes or production units is proposed. Subpart M of 40 CFR 61, the NESHAP for Asbestos, applies to various industrial facilities that handle, process, or manufacture asbestos. The Camden Plant does not process or manufacture asbestos containing materials. However, there are asbestos containing materials present on the site (e.g., floor tile and insulation). When the plant engages in demolition or renovation activities involving asbestos, 40 CFR §61.145, the standard for demolition and renovation applies.
National Emission Standards for Hazardous Air Pollutants	40 CFR Part 63, Subpart ZZZZ	Facility-Wide	40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines regulates HAP emissions from RICE located at major and area sources of HAP.	No	The Camden Plant does not have any stationary engines on site. Contractors may bring portable equipment on-site temporarily; however, as these are not stationary sources, NESHAP Subpart ZZZZ is not applicable.
National Emission Standards for Hazardous Air Pollutants	40 CFR Part 63, Subpart JJJJJJ	Boilers	40 CFR Part 63, Subpart JJJJJJ, NESHAP for Industrial, Commercial, and Institutional Boilers at Area Sources, regulates HAP emissions from certain boilers located at area sources of HAP. An affected source is an existing source if construction or reconstruction was commenced before June 4, 2010.	No	The Camden Plant is an area (minor) source of HAP emissions and has a 2.5 million British thermal units per hour (MMBtu/hr) Office Boiler (E6) constructed in 1968. According to 40 CFR §63.11195(e), gas-fired boilers are not subject to NESHAP Subpart JJJJJJ. The Office Boiler only burns natural gas, and as a result, is exempt from Subpart JJJJJJ.
Risk Management Plan	40 CFR Part 68, Subpart B	Facility-Wide	Subpart B of 40 CFR Part 68 outlines requirements for risk management prevention plans pursuant to Section 112(r) of the Clean Air Act. Applicability of the subpart is determined based on the type and quantity of chemicals stored at the facility.	No	The Camden Plant has evaluated the quantities of Section 112(r) regulated substances stored at the facility and has determined that no chemicals are stored in quantities that exceed the regulatory threshold levels. Therefore, a Risk Management Plan is not required.

Table C-1
Regulatory Review
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

Federal and state (NJDEP) air quality regulations were reviewed to determine potentially applicable regulations for the facility's emissions units that are proposed to remain in the permit (i.e. not proposed for removal). The regulations that potentially apply to the facility are identified in the following subsections.

Rule	Citation(s)	Applicable Emissions Unit/ Source Name	Description	Applicable?	Reason
Protection of Stratospheric Ozone	40 CFR Part 82	Facility-Wide	<p>The requirements originating from Title VI of the Clean Air Act, entitled Protection of Stratospheric Ozone, are contained in 40 CFR Part 82.</p> <p>This regulation addresses handling and recycling of refrigerants used in stationary refrigeration, air-conditioning, and heat pump equipment as well as motor vehicle air conditioning.</p>	Yes	Subparts A through E and Subparts G and H are not applicable to the Camden Plant. Subpart F does apply to the Facility and generally applies to facilities that maintain, service, or dispose of appliances (excluding MVAC appliances) that utilize Class I or Class II refrigerants and their nonexempt substitute refrigerants. Subpart F generally requires persons completing the repairs, service, or disposal to be properly certified and records servicing activities be maintained for a minimum of three years.
NJDEP Regulations					
Control and Prohibition of Open Burning	Subchapter 2 (N.J.A.C. 7:27-2)	Facility-Wide	Subchapter 2 prohibits the open burning of refuse and requires permits for open burning in limited circumstances such as infested plant life, prescribed burning, emergencies, of dangerous materials, herbaceous plant life and hedgerows, orchard prunings and cullings, for land clearing activities, and other reasons with merit.	Yes	The Camden Plant does not perform any open burning.
Control and Prohibition of Smoke from Combustion Fuel	Subchapter 3 (N.J.A.C. 7:27-3)	Fuel-Burning Equipment	Subchapter 3 limits the emission of visible smoke to the atmosphere from combustion equipment and sets visible emission limits that vary with the types of combustion sources.	Yes	Combustion sources at the Camden Plant are subject to N.J.A.C 7:27-3.2 – Smoke Emissions from Stationary Indirect Heat Exchangers that stipulates no visible emissions, exclusive of condensed water vapor, shall be emitted into the atmosphere for more than three minutes in any consecutive 30-minute period.

Table C-1
Regulatory Review
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

Federal and state (NJDEP) air quality regulations were reviewed to determine potentially applicable regulations for the facility's emissions units that are proposed to remain in the permit (i.e. not proposed for removal). The regulations that potentially apply to the facility are identified in the following subsections.

Rule	Citation(s)	Applicable Emissions Unit/ Source Name	Description	Applicable?	Reason
Control and Prohibition of Particles from Combustion Fuel	Subchapter 4 (N.J.A.C. 7:27-4)	Fuel-Burning Equipment	Subchapter 4 sets the maximum allowable rate of particulate emissions for combustion sources based on the emission unit maximum heat input rate in MMBtu/hr. N.J.A.C. 7:27-4.2 provides a table that relates maximum heat input to maximum allowable particulate emissions with instruction to calculate by interpolation the maximum allowable emissions for a heat input rates that fall between to listed input rate.	Yes	All combustion sources at the Camden Plant have established maximum allowable particulate emissions rates based on this regulation and all are represented accurately in the current Title V permit.
Control and Prohibition of Particles from Manufacturing Processes	Subchapter 6 (N.J.A.C. 7:27-6)	Process Equipment	Subchapter 6 establishes the maximum allowable particulate emissions for manufacturing process sources based on two criteria: 1) the potential emissions rate from source operation in pounds per hour (lb/hr) and, 2) the exhaust flow from the source in standard cubic feet per minute (scfm). The maximum allowable particulate emissions rate is the greater of the two values developed from the two criteria. Subchapter 6 also establishes an opacity limit of 20% for a period no longer than three minutes in any consecutive 30-minute period.	Yes	All manufacturing process sources at the Camden Plant have established maximum allowable particulate emissions rates based on this regulation and all are represented accurately in the current Title V permit.
Sulfur in Fuels	Subchapter 9 (N.J.A.C. 7:27-9)	Fuel-Burning Equipment	Subchapter 9 sets limits on the sulfur content of typical grades of fuel oil to be stored, sold or used in New Jersey.	No	With this modification application, GP proposes to remove all distillate oil-fired operating scenarios from the permit. Therefore, the requirements of N.J.A.C. 7:27-9 will not apply to any fuel-burning equipment in the permit after the modification.
Control and Prohibition of Air Pollution from VOCs	Subchapter 16 (N.J.A.C. 7:27-16)	Facility-Wide	Subchapter 16 establishes requirements and procedures concerning the control of Volatile Organic Compounds (VOC) by requiring stationary sources to utilize reasonably available control technology (RACT).	Yes	The current permit has established controls of VOCs through emission limits and annual boiler tuning.

Table C-1
Regulatory Review
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

Federal and state (NJDEP) air quality regulations were reviewed to determine potentially applicable regulations for the facility's emissions units that are proposed to remain in the permit (i.e. not proposed for removal). The regulations that potentially apply to the facility are identified in the following subsections.

Rule	Citation(s)	Applicable Emissions Unit/ Source Name	Description	Applicable?	Reason
Control and Prohibition of Air Pollution by Toxic Substances	Subchapter 17 (N.J.A.C. 7:27-17)	Facility-Wide	Subchapter 17 establishes reporting limits and state of the art (SOTA) thresholds for toxic substances. Operations and equipment covered by this Subchapter include, but are not be limited to, storage tanks, transfer operations, open top tanks, surface cleaning, surface coating, organic chemical manufacture, pharmaceutical manufacture, petroleum refining, and miscellaneous organic solvent uses.	Yes	The Camden Plant does not store, transfer, use, or manufacture any Group I or Group II toxic substance. Therefore, the facility is not subject to any of the reporting limits and SOTA thresholds established under N.J.A.C. 7:27-17.9(a).
Control and Prohibition of Air Pollution from New or Altered Sources Affecting Ambient Air Quality (Emission Offset Rule)	Subchapter 18 (N.J.A.C. 7:27-18)	Facility-Wide	Subchapter 18 defines the emissions thresholds for air contaminants that are considered significant net emissions increases. Additionally, standards for the issuance of permits, criteria for requiring an air quality impact analysis (i.e., dispersion modeling), and standards for use of emissions offsets are defined in this subchapter for facilities that meet the criteria established at N.J.A.C. 7:27:18(a)1 or 2.	Yes	The Camden Plant performed a Subchapter 18 netting analysis for the changes proposed with this modification to demonstrate that the this permit action does not meet the criteria at N.J.A.C. 7-27:18(a)1 or 2. Please refer to Attachment G for additional details.
Control and Prohibition of Air Pollution from Oxides of Nitrogen	Subchapter 19 (N.J.A.C. 7:27-19)	Facility-Wide	Subchapter 19 establishes requirements and procedures concerning the control of nitrogen oxides (NO _x) by requiring stationary sources to utilize reasonably available control technology (RACT).	Yes	The current permit has established controls of NO _x through emissions limits, material usage limits, and annual boiler tuning.

^(a) Procedure for a Facility with an Existing Operating Permit to Become a Non-Major Facility. New Jersey Department of Environmental Protection. January 1, 2018.

In accordance with New Jersey Administrative Code (N.J.A.C.) Title 7, Chapter 27, Subchapter 22.

Link: <https://www.state.nj.us/dep/aqpp/permitguide/nonmajor.pdf>

Table C-2
NSPS Subpart 000 Affected Equipment
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

The Camden Plant has a number of emission units that are considered affected facilities with respect to NSPS Subpart 000. This table includes all affected facilities at the plant and identifies the relevant NSPS Subpart 000 PM emission and opacity limits. Emission limits and/or opacity limits for certain affected facilities are proposed for update as part of the application.

Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	NSPS 000 "Affected Facility"	Original Date of Construction	Date of Modification/ Reconstruction/ Replacement	NSPS 000 Emissions Limit			NSPS 000 Opacity Limit ^(b)	Regulatory Citation
									Pollutant	NSPS 000 Emissions Limit	Units		
U24 ^(a)	OS1	E24	CD16	PT26	Raymond Mill #1	Grinding Mill	1962	1995 (Replacement)	N/A	N/A	N/A	7%	60.670(d)(1)
U26	OS1	E26	CD19	N/A	Portland Cement Bin	Storage Bin	1963	1998	N/A	N/A	N/A	7%	60.672(e)(1)
U31	OS1	E31	CD24	PT33	Stucco Cooling - #1 Hot Stucco Elevator	Bucket Elevator	1995	N/A	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U31	OS4	E34	CD24	PT33	Stucco Cooling - #2 Hot Stucco Elevator	Bucket Elevator	1995	N/A	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U31	OS8	E71	CD24	PT33	Stucco Cooling - Bulk Stucco Loading Spout	Enclosed Truck Loading Station	1994	TBD ^(c) (Replacement)	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U31	OS9	E57	CD24	PT33	Stucco Cooling - Bulk Stucco Handling Elevator	Bucket Elevator	1996	N/A	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U31	OS10	E58	CD24	PT33	Stucco Cooling - Bulk Stucco Handling Sifter	Screening Operation	1996	2022 (Replacement)	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U34	OS1	E40	N/A	PT34	Reclaim Feeder	Crusher	1996	N/A	N/A	N/A	N/A	10%	60.672(b) - Table 3
U34	OS2	E104	N/A	PT104	Reclaim Belt Conveyor	Belt Conveyor	1985	N/A	N/A	N/A	N/A	10%	60.672(b) - Table 3
U35	OS1	E42	CD25	N/A	Alpha Feed Bin	Storage Bin	1998	N/A	N/A	N/A	N/A	7%	60.672(e)(1)
U36	OS1	E43	CD26	PT36	Bag Packer #1	Bagging Operation	1998	N/A	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U36	OS2	E44	CD26	PT36	Bulk Plaster Blender and Weigher - Weigh Belt	Belt Conveyor	1998	N/A	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U36	OS5	E47	CD26	PT36	Transfer from 10 Belt to 11 Belt	Belt Conveyor	1984	1998 (Modified)	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U36	OS6	E102	CD26	PT36	Bag Packer #2	Bagging Operation	1998	N/A	PM	0.022	gr/dscf	7%	60.672(a) - Table 2
U36	OS7	E103	CD26	PT36	Bulk Bagger	Bagging Operation	2022	N/A	PM	0.014	gr/dscf	N/A	60.672(a) - Table 2
U38	OS1	E49	CD28	N/A	Impact Mill #1	Grinding Mill	1998	N/A	N/A	N/A	N/A	7%	60.672(e)(1)
U38	OS2	E70	CD28	N/A	Impact Mill #2	Grinding Mill	1998	2003 (Modified)	N/A	N/A	N/A	7%	60.672(e)(1)
U39	OS1	E50	CD29	N/A	Impact Mill Screen	Screening Operation	1998	N/A	N/A	N/A	N/A	7%	60.672(e)(1)
U40	OS1	E51	CD30	N/A	Stucco Reserve Bin #2	Storage Bin	1962	1998	N/A	N/A	N/A	7%	60.672(e)(1)
U41	OS1	E52	CD31	N/A	Impact Feed Mill Bin	Storage Bin	1962	1998	N/A	N/A	N/A	7%	60.672(e)(1)
U53	OS1	E114	N/A	PT111	Delumper	Grinding Mill	2017	N/A	N/A	N/A	N/A	7%	60.672(e)(1)

^(a) Per 40 CFR §60.670(d)(1), “[w]hen an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §60.672 [Standards for particulate matter], §60.674 [Monitoring of operations], and §60.675 [Test methods and procedures].” The owner or operator is only required to submit to the Administrator a notification with the rated capacity of the existing and replacement unit, as specified in §60.676(a).

Raymond Mill #1 (E24) was originally constructed in 1962. In 1995, Raymond Mill #1 was replaced with another pre-Subpart OOO (pre-August 31, 1983) Raymond Mill from another GP gypsum facility, of equal size and having the same function as the existing Mill, with no increase in the amount of emissions generated.

Raymond Mill #1 has not been modified or reconstructed since it was replaced in 1995. The Plant has not been able to find a copy of any replacement notice submitted for the Raymond Mill #1 replacement under 40 CFR §60.676(a)(1), but believes nonetheless that Raymond Mill #1 should be listed in the permit as an affected facility under NSPS Subpart OOO even though it remains exempt from the rule’s substantive requirements under the replacement provision.

^(b) The Facility has several baghouses that exhaust in buildings and that control emissions from one or more affected facilities of NSPS Subpart OOO. The current permit assigns the fugitive emission opacity standard of 10% as specified in 40 CFR §60.672(b). However, it is GP’s position that these affected facilities are subject to a 7% opacity standard for building openings per 40 CFR §60.672(e)(1). Therefore, this modification application proposes the opacity limit for the following “affected facilities” be changed from 10% to 7%:

- Portland Cement Bin (U26, E26, CD19),
- Alpha Feed Bin (U35, E42, CD25),
- Impact Mill #1 (U38, E49, CD28),
- Impact Mill #2 (U38, E70, CD28),
- Impact Mill Screen (U39, E52, CD29),
- Stucco Reserve Bin #2 (U40, E51, CD30), and
- Impact Mill Feed Bin (U41, E52, CD31).

^(c) The replacement of the Bulk Stucco Loading Spout was authorized by Permit Activity number BOP190005 but has not been completed.

Table C-3
NSPS Subpart UUU Affected Equipment
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

The Camden Plant has three kettle calciners (E3, E4 and E5) that were constructed in 1962. However, after a review of previous changes to the emissions units, it appears that each of the kettles was modified after the applicability date of NSPS Subpart UUU. Currently, only Kettle Calciner #1 is reflected as being subject in the permit (i.e., at operating scenario level). Additionally, the incorrect NSPS Subpart UUU PM emission limit is shown in the permit for Kettle Calciner #1. This application proposes to correct the emission factor to 0.040 gr/dscf, which applies to calciners (instead of 0.025 gr/dscf that applies to dryers) and add NSPS UUU as an applicable requirement for Kettle Calciners #2 and #3.

Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	NSPS UUU "Affected Facility"	Original Date of Construction	Date of Modification/ Reconstruction/ Replacement	Pollutant	Emissions Limit	Units	Opacity Limit	Regulatory Citation
U2	OS3	E3	CD1	PT4	Kettle Calciner # 1	Calciner	1962	2004 (Modification)	PM	0.040	gr/dscf	10%	40 CFR 60.732(a) and (b)
U2	OS6	E4	CD2	PT6	Kettle Calciner # 2	Calciner	1962	1994 (Modification)	PM	0.040	gr/dscf	10%	40 CFR 60.732(a) and (b)
U2	OS9	E5	CD3	PT8	Kettle Calciner # 3	Calciner	1962	1989 (Modification)	PM	0.040	gr/dscf	10%	40 CFR 60.732(a) and (b)

**ATTACHMENT D –
SUMMARY OF CHANGES**

Table D-1
Summary of Changes
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

As part of the preparation of this application, GP conducted a comprehensive review of all operations at the site and made a concerted effort to update all emission rate calculations with the best emissions information available. In addition, a thorough regulatory applicability analysis was conducted. This permit application does not propose physical or operational changes to any existing emissions units or to construct any new emission units. Any changes to calculated maximum potential emissions are due to refinement of emission factors and conventions and/or update to applicable emissions standards. This table summarizes proposed changes to Section D of the permit, specifically all components through the Fugitive PM Management Plan. A mark-up of Section D of the permit is included in Attachment E, which also includes administrative updates (e.g., permit hygiene type changes) to information after the Fugitive PM Management Plan that GP proposes be updated in RADIUS.

Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	Description Action	Permitting Action	Description of Change
Sitewide	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Incorporate minor and/or administrative updates to the Fugitive PM Management Plan. As part of this update, the Camden Plant also proposes to revise the Monthly Inspection Checklist located in Appendix A of the current Fugitive PM Management Plan. Specifically, GP proposes to remove the stormwater, tanks, and waste sections from the inspection form. The stormwater, tanks and waste inspections are already being performed, pursuant to other environmental plans and/or permits at the Camden Plant. The plant would like to only retain the inspections specific to fugitive PM management. Per Section "1.2 Revisions to the Plan," these proposed revisions shall be submitted to the NJDEP Regional Enforcement Officer for review.
IS2	N/A	N/A	N/A	N/A	Heater at Knife Area 1	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS3	N/A	N/A	N/A	N/A	Heater at Knife Area 2	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS4	N/A	N/A	N/A	N/A	Heater at Knife Area 3	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS7	N/A	N/A	N/A	N/A	Paper Warmers 1-4	Remove	Current Application	Remove from the Permit (i.e., units permanently removed from service).
IS8	N/A	N/A	N/A	N/A	Paper Warmers 5-8	Remove	Current Application	Remove from the Permit (i.e., units permanently removed from service).
IS10	N/A	N/A	N/A	N/A	Storage/use of non-HAP chemicals in containers	Remove	Current Application	Remove from the Permit (i.e., units permanently removed from service).
IS14	N/A	N/A	N/A	N/A	40,000-gal Distillate Fuel Oil Storage Tank	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS15	N/A	N/A	N/A	N/A	Solid Storage Vessels	Remove	Current Application	Remove from the Permit (i.e., units permanently removed from service).
IS16	N/A	N/A	N/A	N/A	Prime Holding Tank	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS17	N/A	N/A	N/A	N/A	Prime Paint Tank	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS18	N/A	N/A	N/A	N/A	Mixing Tanks Throughout the Plant	Remove	Current Application	Remove from the Permit (i.e., units permanently removed from service).
IS19	N/A	N/A	N/A	N/A	Gypcrete Printing Area	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS22	N/A	N/A	N/A	N/A	Temporary Diesel Generator	Remove	BOP190004 & Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS23	N/A	N/A	N/A	N/A	Temporary Storage Silo	Remove	BOP190004 & Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS24	N/A	N/A	N/A	N/A	Slitters	Remove	Current Application	Remove from the Permit (i.e., units permanently removed from service).
IS25	N/A	N/A	N/A	N/A	Cross Cutter	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
IS27	N/A	IS27	N/A	N/A	Bake-Off Oven	Addition	BOP190004 & Current Application	Add this insignificant source to the Permit.
IS28	N/A	IS28	N/A	N/A	Autowinder Splicer	Addition	Current Application	Add this insignificant source to the Permit.
U2	OS	E3, E4, and E5	CD1, CD2, and CD3	PT3, PT4, PT5, PT6, PT7, and PT8	Kettle Calciner No. 1, No. 2, and No. 3	Permit Modification	Current Application	Revise VOC, NOx, CO, TSP, PM10, and PM2.5 permitted emissions based on updated calculations. VOC, NOx, and CO emissions are increasing based on the administrative update to natural gas firing rates noted below. PM10, and PM2.5 emissions are increasing due to the quantification of condensable PM for the kettles based on test data from another GP site.

Table D-1
Summary of Changes
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

As part of the preparation of this application, GP conducted a comprehensive review of all operations at the site and made a concerted effort to update all emission rate calculations with the best emissions information available. In addition, a thorough regulatory applicability analysis was conducted. This permit application does not propose physical or operational changes to any existing emissions units or to construct any new emission units. Any changes to calculated maximum potential emissions are due to refinement of emission factors and conventions and/or update to applicable emissions standards. This table summarizes proposed changes to Section D of the permit, specifically all components through the Fugitive PM Management Plan. A mark-up of Section D of the permit is included in Attachment E, which also includes administrative updates (e.g., permit hygiene type changes) to information after the Fugitive PM Management Plan that GP proposes be updated in RADIUS.

Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	Description Action	Permitting Action	Description of Change
U2	OS1, OS2	E3	CD1	PT3 and PT4	Kettle Calciner No. 1	Permit Modification	Current Application	Revise the TSP, PM10, and PM2.5 permitted emission rates.
U2	OS1	E3	CD1	PT3 and PT4	Kettle Calciner No. 1	Permit Modification	Current Application	Update the maximum natural gas firing rate from 122.6 MMscf/yr to 122,640 MMBtu/yr. The maximum gross heat input is included in the permit as 14 MMBtu/hr; the requested annual firing rate assumes continuous natural gas firing. This is an administrative update to remove the heating value of natural gas assumed in the permit to calculate the annual natural gas firing rate.
U2	OS1	E3	CD1	PT3 and PT4	Kettle Calciner No. 1	Permit Modification	Current Application	Correct the NSPS UUU PM limit to 0.040 gr/dscf that applies affected facilities that are calciners. The current permit includes the limit for affected facilities that are dryers. Refer to Attachment C (Regulatory Applicability) for additional detail.
U2	OS, OS2	E3	CD1	PT3 and PT4	Kettle Calciner No. 1	Permit Modification	Current Application	Remove flexibility to combust Ultra Low Sulfur Fuel Oil in this emission unit.
U2	OS3 (proposed OS2)	E3	CD1	PT3 and PT4	Kettle Calciner No. 2	Permit Modification	Current Application	Revise the TSP, PM10, and PM2.5 permitted emission rates.
U2	OS3 (proposed OS2)	E3	CD1	PT3 and PT4	Kettle Calciner No. 1	Permit Modification	Current Application	Correct the NSPS UUU PM limit to 0.040 gr/dscf that applies affected facilities that are calciners. The current permit includes the limit for affected facilities that are dryers. Refer to Attachment C (Regulatory Applicability) for additional detail.
U2	OS4 (proposed OS3)	E4	CD2	PT5 and PT6	Kettle Calciner No. 2	Permit Modification	Current Application	Update the maximum natural gas firing rate from 98 MMscf/yr to 122,640 MMBtu/yr. The maximum gross heat input is included in the permit as 14 MMBtu/hr; the requested annual firing rate assumes continuous natural gas firing. This is an administrative update to remove the heating value of natural gas assumed in the permit to calculate the annual natural gas firing rate.
U2	OS4 (proposed OS3), OS6 (proposed OS4)	E4	CD2	PT5 and PT6	Kettle Calciner No. 2	Permit Modification	Current Application	Add NSPS UUU applicable requirements. Refer to Attachment C (Regulatory Applicability) for additional detail.
U2	OS, OS5	E4	CD2	PT5 and PT6	Kettle Calciner No. 2	Permit Modification	Current Application	Remove flexibility to combust Ultra Low Sulfur Fuel Oil in this emission unit.
U2	OS7 (proposed OS5), OS9 (proposed OS6)	E5	CD3	PT7 and PT8	Kettle Calciner No. 3	Permit Modification	Current Application	Revise the TSP, PM10, and PM2.5 permitted emission rates.
U2	OS7 (proposed OS5)	E5	CD3	PT7 and PT8	Kettle Calciner No. 3	Permit Modification	Current Application	Update the maximum natural gas firing rate from 98 MMscf/yr to 122,640 MMBtu/yr. The maximum gross heat input is included in the permit as 14 MMBtu/hr; the requested annual firing rate assumes continuous natural gas firing. This is an administrative update to remove the heating value of natural gas assumed in the permit to calculate the annual natural gas firing rate.
U2	OS7 (proposed OS5), OS9 (proposed OS6)	E5	CD3	PT7 and PT8	Kettle Calciner No. 3	Permit Modification	Current Application	Add NSPS UUU applicable requirements. Refer to Attachment C (Regulatory Applicability) for additional detail.
U2	OS, OS8	E5	CD3	PT7 and PT8	Kettle Calciner No. 3	Permit Modification	Current Application	Remove flexibility to combust Ultra Low Sulfur Fuel Oil in this emission unit.
U6	OS1	E6	N/A	PT9	Office Boiler	Permit Modification	Current Application	Update maximum natural gas firing rate from 21.5 MMscf/yr to 21,900 MMBtu/yr. The maximum gross heat input is included in the permit as 2.5 MMBtu/hr; the requested annual firing rate assumes continuous natural gas firing. This is an administrative update to remove the heating value of natural gas assumed in the permit to calculate the annual natural gas firing rate.
U8	OS1 and OS2	E8	N/A	PT13	Process Water Heater	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U9	OS1	E9	N/A	PT14	6,000 Gallon Soap Solution Tank	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).

Table D-1
Summary of Changes
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

As part of the preparation of this application, GP conducted a comprehensive review of all operations at the site and made a concerted effort to update all emission rate calculations with the best emissions information available. In addition, a thorough regulatory applicability analysis was conducted. This permit application does not propose physical or operational changes to any existing emissions units or to construct any new emission units. Any changes to calculated maximum potential emissions are due to refinement of emission factors and conventions and/or update to applicable emissions standards. This table summarizes proposed changes to Section D of the permit, specifically all components through the Fugitive PM Management Plan. A mark-up of Section D of the permit is included in Attachment E, which also includes administrative updates (e.g., permit hygiene type changes) to information after the Fugitive PM Management Plan that GP proposes be updated in RADIUS.

Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	Description Action	Permitting Action	Description of Change
U10	OS1	E10	CD4	PT15	Board End Saw	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U11	OS1 & OS2	E11	CD5	PT16	Rotary Rock Dryer	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U11	OS3	E12	CD5	PT16	Belt Conveyor #8B	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U11	OS4 and OS5	E13 and E65	CD5	PT16	Belt Conveyor #8A	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U14	OS, OS1	E14	CD6	PT17	Landplaster Reserve Bin	Permit Modification	Current Application	Rename this unit to "Landplaster Bin #4" to be consistent with plant nomenclature.
U14	OS	E14	CD6	PT17	Landplaster Reserve Bin	Permit Modification	Current Application	Revise E14 exhaust flow and grain loading to be based on recent stack testing and revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA (results in the maximum calculated exhaust flow rate and emissions). Revise E38 annual throughput to reflect actual operations. This change results in changes to the permitted TSP, PM10, and PM2.5 emission rates and decreases the total material transferred.
U14	OS1	E14	CD6	PT17	Landplaster Reserve Bin	Permit Modification	Current Application	Revise TSP, PM10, and PM2.5 emission rates based on change to emission rate calculations: exhaust flow and grain loading based on recent stack testing and exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA.
U14	OS2	E38	CD6	PT17	Bulk Loading of Landplaster	Permit Modification	Current Application	Revise TSP, PM10, and PM2.5 emission rates based on change to emission rate calculations: exhaust flow and grain loading based on recent stack testing and exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA.
U15	OS1	E15	CD7	N/A	Stucco Supply Elevator	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U15	OS2	E16	CD33	N/A	Stucco Recirculating Elevator	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U15	OS3	E66	CD32	N/A	Stucco Scalping Screw	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U15	OS4	E59	CD34	N/A	Dry Additive Elevator	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U15	OS5	E67	CD32	N/A	Stucco Weigh Belt Feeder	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U17	OS1	E17	CD8	N/A	Landplaster Pneumatic Conveying Process	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U18	OS1	E18	CD9	N/A	Stucco Mixing Screw Conveyor	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U19	OS1	E19	CD10	N/A	Board Stucco Silo #1	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U20	OS1	E20	CD11	N/A	Board Stucco Silo #2	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U21	OS1	E21	CD12	PT23	441 Screw Conveyor	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U23	OS1	E23	CD14	N/A	Pin Mixer	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U24	OS	E24 and E25	CD16 and CD18	PT26 and PT27	Raymond Mill #1 and Raymond Mill #2	Permit Modification	Current Application	Remove flexibility to combust #2 Distillate Oil in these emission units. This change also reduces the annual emission limits of VOC, NOx, CO, TSP, PM10, and PM2.5.

Table D-1
Summary of Changes
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

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Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	Description Action	Permitting Action	Description of Change
U24	OS	E24 and E25	CD16 and CD18	PT26 and PT27	Raymond Mill #1 and Raymond Mill #2	Permit Modification	Current Application	Update the maximum natural gas firing rate from 64.3 MMscf/yr to 72,855 MMBtu/yr for both units combined. The maximum gross heat input is included in the permit as 5 MMBtu/hr/mill; the requested annual firing rate assumes continuous natural gas firing. This is an administrative update to remove the heating value of natural gas assumed in the permit to calculate the annual natural gas firing rate.
U24	OS and OS1	E24	CD16	PT26	Raymond Mill #1	Permit Modification	Current Application	Add limited requirements of NSPS OOO that apply to replacement units as described in 40 CFR §60.670(d)(1) and (d)(2).
U24	OS1	E24	CD16	PT26	Raymond Mill #1	Permit Modification	Current Application	Update TSP emissions limit to exclude condensable PM.
U24	OS2	E24	CD16	PT26	Raymond Mill #1	Permit Modification	Current Application	Remove flexibility to combust #2 Distillate Oil in these emission units.
U24	OS3 (proposed OS2)	E24	CD18	PT27	Raymond Mill #2	Permit Modification	Current Application	Update TSP emissions limit to exclude condensable PM.
U24	OS4	E25	CD18	PT27	Raymond Mill #2	Permit Modification	Current Application	Remove flexibility to combust #2 Distillate Oil in these emission units.
U26	OS	E26	CD19	Vents Indoors	Portland Cement Bin (aka Reserve Bin #4)	Permit Modification	Current Application	Rename this unit "Portland Cement Bin".
U26	OS	E26	CD19	Vents Indoors	Portland Cement Bin (aka Reserve Bin #4)	Permit Modification	BOP190004 & Current Application	Update the exhaust flow to 950 acfm based on vendor information, increase operational hours to 8,760 hr/yr, and revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA, since these changes result in the maximum calculated exhaust flow rate and emissions. These changes result in an increase in the permitted TSP, PM10, and PM2.5 emission rates.
U26	OS	E26	CD19	Vents Indoors	Portland Cement Bin (aka Reserve Bin #4)	Permit Modification	Current Application	Revise annual throughput to 6,000 tons/year based on maximum expected throughput.
U26	OS	E26	CD19	Vents Indoors	Portland Cement Bin (aka Reserve Bin #4)	Permit Modification	Current Application	Revise the applicable NSPS OOO opacity limit to 7% in 40 CFR §60.672(e)(1).
U30	OS and OS1	E30	CD23	Vents Indoors	Moulding Plaster Bin/Stucco Reserve Bin #3	Permit Modification	Current Application	Rename this unit "Molding Plaster Bin" to be consistent with plant nomenclature.
U30	OS2	E30	CD23	Vents Indoors	Moulding Plaster Bin Elevator	Permit Modification	Current Application	Rename this unit "Molding Plaster Bin Elevator" to be consistent with plant nomenclature.
U31	OS	E31, E32, E33, E34, E35 E36, E37, E71, E57, E58, E106	CD24	PT33	Stucco Cooling	Permit Modification	Current Application	Revise the annual throughput specified for OS1-OS7 and OS11 to 60,000 tons/year based on maximum expected throughput.
U31	OS	E31, E32, E33, E34, E35 E36, E37, E71, E57, E58, E106	CD24	PT33	Stucco Cooling	Permit Modification	Current Application	Revise NSPS OOO PM emissions standard to correctly reflect E58 and E71 were replaced (not modified) after April 22, 2008, and thus, these affected facilities under NSPS OOO are subject to an emissions limit of 0.022 gr/dscf (not 0.014 gr/dscf). In addition, revise exhaust temperature to be based on minimum value expected since this results in maximum calculated exhaust flow rate and emissions. Correct the Particulates, TSP, PM10, and PM2.5 emission limits to reflect the change in exhaust temperature and basis of proposed maximum emissions limits (i.e., emission factor developed based on recent stack test results). (Note: The short-term emissions limits in the permit are only based on the sum of emissions from two pieces of equipment associated with U31.)
U31	OS	E31, E32, E33, E34, E35 E36, E37, E71, E57, E58, E106	CD24	PT33	Stucco Cooling	Permit Modification	Current Application	Remove NSPS OOO fugitive emissions limit. Affected facilities exhaust through a stack.
U31	OS, OS1, and OS4	E31, E32, E33, E34, E35 E36, E37, E71, E57, E58, E106	CD24	PT33	Stucco Cooling	Permit Modification	Current Application	Clarify NSPS OOO applicable requirements apply to OS1 and OS4 in addition to OS8, OS9, and OS10.
U31	OS8	E71	CD24	PT33	Bulk Stucco Loading Spout	Permit Modification	Current Application	Revise the annual throughput to 60,000 tons/year based on maximum expected throughput.

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Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	Description Action	Permitting Action	Description of Change
U31	OS8	E71	CD24	PT33	Bulk Stucco Loading Spout	Permit Modification	Current Application	Revise exhaust temperature to be based on minimum value expected since this result in maximum calculated exhaust flow rate and emissions and revise basis of proposed maximum emissions limits (i.e., emission factor developed based on recent stack test results). This results in changes to permitted TSP, PM10, and PM2.5 emission rates.
U31	OS8	E71	CD24	PT33	Bulk Stucco Handling Sifter	Permit Modification	Current Application	Revise NSPS OOO PM emissions standard to correctly reflect E58 was replaced (not modified) after April 22, 2008, and thus, this affected facility under NSPS OOO is subject to an emissions limit of 0.022 gr/dscf (not 0.014 gr/dscf).
U31	OS9	E57	CD24	PT33	Bulk Stucco Handling Elevator	Permit Modification	Current Application	Revise the annual throughput to 60,000 tons/year based on maximum expected throughput.
U31	OS10	E58	CD24	PT33	Bulk Stucco Handling Sifter	Permit Modification	Current Application	Update TSP emission rate to 0.11 lb/hr.
U31	OS10	E58	CD24	PT33	Bulk Stucco Handling Sifter	Permit Modification	Current Application	Revise the annual throughput to 60,000 tons/year based on maximum expected throughput.
U31	OS10	E58	CD24	PT33	Bulk Stucco Handling Sifter	Permit Modification	Current Application	Revise NSPS OOO PM emissions standard to correctly reflect E58 was replaced (not modified) after April 22, 2008, and thus, this affected facility under NSPS OOO is subject to an emissions limit of 0.022 gr/dscf (not 0.014 gr/dscf).
U34	OS1	E40	N/A	PT34	Reclaim Feeder	Permit Modification	Current Application	Add NSPS OOO applicable requirements. Refer to Attachment C (Regulatory Applicability) for additional detail.
U34	OS1	E40	N/A	PT34	Reclaim Feeder	Permit Modification	Current Application	Update basis of of particulate emission limit from N.J.A.C. 7:27-6.2(a).
U34	OS1	E40	N/A	PT34	Reclaim Feeder	Permit Modification	Current Application	Revise inputs to emission factor calculation from AP-42, Section 13.2.4. This change in an increase in permitted TSP emission rates.
U34	OS2	E40	N/A	PT34	Reclaim Belt Conveyor	Permit Modification	Current Application	Update basis of of particulate emission limit from N.J.A.C. 7:27-6.2(a).
U35	OS	E42	CD25	Vents Indoors	Dens Cal Feed Bin	Permit Modification	Current Application	Rename this unit "Alpha Feed Bin" to be consistent with plant nomenclature.
U35	OS	E42	CD25	Vents Indoors	Dens Cal Feed Bin	Permit Modification	BOP190004 & Current Application	Update the exhaust flow to 950 acfm based on vendor information and revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA, since these changes result in the maximum calculated exhaust flow rate and emissions. These changes result in an increase in the PM emission rate over the reporting threshold.
U35	OS	E42	CD25	Vents Indoors	Dens Cal Feed Bin	Permit Modification	Current Application	Revise the applicable NSPS OOO opacity limit to 7% in 40 CFR §60.672(c)(1).
U36	OS, OS1-OS7	E43, E44, E45, E46, E47, E102, and E103	CD26	PT36	Blender/Packer System	Permit Modification	BOP190004 & Current Application	Rename this unit "Underlayment/Rock Bins and Transfers" to be consistent with plant nomenclature.
U36	OS	E43, E44, E45, E46, E47, E102, and E103	CD26	PT36	Blender/Packer System	Permit Modification	Current Application	Revise exhaust flow based on recent stack testing and revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA since this results in the maximum calculated exhaust flow rate and emissions. Revise TSP and PM10 emission rates to be based on NSPS OOO emission limit of 0.014 gr/dscf. These result in changes in the permitted particulate, TSP, and PM10 emission rates.
U36	OS	E43, E44, E45, E46, E47, E102, and E103	CD26	PT36	Blender/Packer System	Permit Modification	Current Application	Remove NSPS OOO requirements from OS and add to specific emission units that are subject.
U36	OS1	E43	CD26	PT36	Bag Packer #1	Permit Modification	Current Application	Clarify this specific equipment is subject to NSPS OOO (only reflected at OS) and specify applicable emissions limit.
U36	OS2	E44	CD26	PT36	Bulk Plaster Blender and Weigher	Permit Modification	Current Application	Revise the annual throughput to 100,000 tons/year based on maximum expected throughput.
U36	OS2	E44	CD26	PT36	Bulk Plaster Blender and Weigher	Permit Modification	Current Application	Clarify this specific equipment is subject to NSPS OOO (only reflected at OS) and specify applicable emissions limit.

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Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	Description Action	Permitting Action	Description of Change
U36	OS5	E47	CD26	PT36	Transfer from 10 Belt to 11 Belt	Permit Modification	Current Application	Clarify this specific equipment is subject to NSPS OOO (only reflected at OS) and specify applicable emissions limit.
U36	OS6	E102	CD26	PT36	Bag Packer #2	Permit Modification	Current Application	Clarify this specific equipment is subject to NSPS OOO (only reflected at OS) and specify applicable emissions limit.
U36	OS7	E103	CD26	PT36	Bulk Bagger	Permit Modification	Current Application	Update TSP, PM10, and PM2.5 emission limits to reflect total baghouse emission rates.
U36	OS7	E103	CD26	PT36	Bulk Bagger	Permit Modification	Current Application	Revise the annual throughput to 100,000 tons/year based on maximum expected throughput.
U36	OS7	E103	CD26	PT36	Bulk Bagger	Permit Modification	Current Application	Clarify this specific equipment is subject to NSPS OOO (only reflected at OS) and specify applicable emissions limit.
U36	OS8	E122	N/A	PT110	Transfer Surge Bin 1	Addition	Current Application	Add this operating scenario to the Permit for U36. During review of the process flow diagrams, this transfer was identified. The transfer is not collected or routed to any control device. Maximum emissions are estimated at 0.03 lb/hr and 0.11 tpy PM.
U36	OS9	E123	N/A	PT110	Transfer Surge Bin 2	Addition	Current Application	Add this operating scenario to the Permit for U36. During review of the process flow diagrams, this transfer was identified. The transfer is not collected or routed to any control device. Maximum emissions are estimated at 0.03 lb/hr and 0.11 tpy PM.
U37	OS1	E48	CD27	N/A	Land Plaster Bin #4	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U38	OS	E47 and E70	CD28	Vents Indoors	Impact Mills	Permit Modification	Current Application	Update the exhaust flow to 1,200 acfm and revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA, since these changes result in the maximum calculated exhaust flow rate and emissions. These changes result in TSP, PM10, and PM2.5 emission rates above the reporting threshold.
U38	OS	E47 and E70	CD28	Vents Indoors	Impact Mills	Permit Modification	Current Application	Remove NSPS OOO requirements from OS and add to specific emission units that are subject.
U38	OS1	E49	CD28	Vents Indoors	Impact Mill #1	Permit Modification	Current Application	Clarify this specific equipment is subject to NSPS OOO (only reflected at OS) and specify applicable emissions limit.
U38	OS2	E70	CD28	Vents Indoors	Impact Mill #2	Permit Modification	Current Application	Clarify this specific equipment is subject to NSPS OOO (only reflected at OS) and specify applicable emissions limit.
U38	OS3	E61	CD28	Vents Indoors	Moulding Plaster Bin Elevator	Remove	Current Application	Remove from the Permit. This equipment is included twice in the permit and will remain in the permit as part of U30.
U39	OS	E50	CD29	Vents Indoors	Impact Mill Screen	Permit Modification	BOP190004 & Current Application	Revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA since this results in the maximum calculated exhaust flow rate and emissions. Also, revise emission factor to be based on allowable emission rate of 0.02 gr/scf in N.J.A.C. 7:27-6.2(a). These changes result in TSP and PM10 emission rates over the reporting threshold.
U39	OS	E50	CD29	Vents Indoors	Impact Mill Screen	Permit Modification	Current Application	Revise the applicable NSPS OOO opacity limit to 7% in 40 CFR §60.672(e)(1).
U40	OS	E51	CD30	Vents Indoors	#2 Stucco Reserve Bin	Permit Modification	Current Application	Revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA since this results in the maximum calculated exhaust flow rate and emissions. This change results in TSP and PM10 emission rates over the reporting threshold.
U40	OS	E51	CD30	Vents Indoors	#2 Stucco Reserve Bin	Permit Modification	Current Application	Revise the applicable NSPS OOO opacity limit to 7% in 40 CFR §60.672(e)(1).
U41	OS1	E52	CD31	Vents Indoors	Impact Mill Feed Bin	Permit Modification	BOP190004 & Current Application	Revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA since this results in the maximum calculated exhaust flow rate and emissions. Also, revise emission factor to be based on allowable emission rate of 0.02 gr/scf in N.J.A.C. 7:27-6.2(a). These changes result in TSP and PM10 emission rates over the reporting threshold.

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Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	Description Action	Permitting Action	Description of Change
U41	OS1	E52	CD31	Vents Indoors	Impact Mill Feed Bin	Permit Modification	Current Application	Remove NSPS OOO requirements from OS and add to specific emission units that are subject.
U41	OS1	E52	CD31	Vents Indoors	Impact Mill Feed Bin	Permit Modification	Current Application	Clarify this specific equipment is subject to NSPS OOO (only reflected at OS) and specify applicable emissions limit.
U41	OS2	E60	CD31	Vents Indoors	Impact Mill Feed Bin Elevator	Permit Modification	BOP190004 & Current Application	Revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA since this results in the maximum calculated exhaust flow rate and emissions. Also, revise emission factor to be based on allowable emission rate of 0.02 gr/scf in N.J.A.C. 7:27-6.2(a). These changes result in TSP and PM10 emission rates over the reporting threshold.
U42	OS1-OS4	E53-E56	CD37	N/A	Ball Mills 1-4	Remove	Current Application	Remove from the Permit (i.e., units permanently removed from service).
U43	OS1	E68	CD35	PT51	Wet End Vacuum System	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U47	OS	E75	CD39	Vents Indoors	Reject Bin	Permit Modification	Current Application	Revise exhaust temperature to be consistent with minimum monthly average value in AP-42, Table 7.1-7 for Philadelphia, PA since this results in the maximum calculated exhaust flow rate and emissions. This change results in TSP and PM10 emission rates over the reporting threshold.
U51	OS, OS1, OS2, OS3, OS4, and OS5	E107, E108, E19, E110, E111 and E124, and E125	N/A	PT107, PT108, PT109, PT152, and PT153	Crusher Building and Transfer Tower	Permit Modification	Current Application	Revise emission rate calculations based on AP-42, Section 11.19.2 and maximum expected throughput of 300,000 tons/year. This results in changes to TSP, PM10, and PM2.5 permitted emission rates.
U51	OS, OS1, OS2, OS3, OS4, and OS5	E107, E108, E19, E110, E111 and E124, and E125	N/A	PT107, PT108, PT109, PT152, and PT153	Crusher Building and Transfer Tower	Permit Modification	Current Application	Remove requirement for moisture content of raw material transferred to be greater than 1.3% by weight. This value is not relied upon for calculation of emissions.
U51	OS1	E107	N/A	PT107 and PT108	#7 Belt	Permit Modification	Current Application	Rename this unit "Transfer from #6 (Crumb) Belt to #7 Belt". Update Emission Point to PT153.
U51	OS2	E108	N/A	PT107 and PT108	#8 Belt	Permit Modification	Current Application	Rename this unit "Transfer from #7 Belt to #8 Belt". Update Emission Point to PT107 only.
U51	OS3	E109	N/A	PT107 and PT108	#9 Belt	Permit Modification	Current Application	Rename this unit "Transfer from #8 Belt to Wobbler Separator". Update Emission Point to PT107 only.
U51	OS1, OS2, and OS3	E107, E108, and E109	N/A	PT107 and PT108	#7 Belt, #8 Belt, and #9 Belt	Permit Modification	Current Application	Revise the annual throughput to 300,000 tons/year (each) based on maximum expected throughput.
U51	OS4	E110	N/A	PT109 and PT110	#10 Belt	Permit Modification	BOP190004	Rename this unit "Transfer from Gyrotary Crusher or Wobbler Separator or Reclaim Belt to #9 Belt". Update Emission Point to PT107.
U51	OS4	E110	N/A	PT109 and PT110	#10 Belt	Permit Modification	BOP190004	Revise the annual throughput to 300,000 tons/year based on maximum expected throughput.
U51	OS5	E111	N/A	PT109 and PT110	#11 Belt	Permit Modification	Current Application	Rename this unit "Transfer from #9 Belt to #10 Belt". Update Emission Point to PT108 and PT109.
U51	OS5	E111	N/A	PT109 and PT110	#11 Belt	Permit Modification	Current Application	Revise the annual throughput to 300,000 tons/year based on maximum expected throughput.
U51	OS6	E124	N/A	PT152	Transfer to Bar Feeder	Addition	Current Application	Add this operating scenario to the Permit for U51. During review of the process flow diagrams, this existing transfer was identified. The transfer is not collected or routed to any control device. Maximum emissions are estimated at 0.05 lb/hr and 0.23 tpy PM. This transfer is underground and thus, was previously considered exempt from permitting in previous applications.
U51	OS7	E125	N/A	PT153	Transfer from Bar Feeder to #6 (Crumb) Belt	Addition	Current Application	Add this operating scenario to the Permit for U51. During review of the process flow diagrams, this existing transfer was identified. The transfer is not collected or routed to any control device. Maximum emissions are estimated at 0.05 lb/hr and 0.23 tpy PM. This transfer is underground and thus, was previously considered exempt from permitting in previous applications.

Table D-1
Summary of Changes
Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant

As part of the preparation of this application, GP conducted a comprehensive review of all operations at the site and made a concerted effort to update all emission rate calculations with the best emissions information available. In addition, a thorough regulatory applicability analysis was conducted. This permit application does not propose physical or operational changes to any existing emissions units or to construct any new emission units. Any changes to calculated maximum potential emissions are due to refinement of emission factors and conventions and/or update to applicable emissions standards. This table summarizes proposed changes to Section D of the permit, specifically all components through the Fugitive PM Management Plan. A mark-up of Section D of the permit is included in Attachment E, which also includes administrative updates (e.g., permit hygiene type changes) to information after the Fugitive PM Management Plan that GP proposes be updated in RADIUS.

Emissions Unit	Operating Scenario	Equipment ID (NJID)	Control Device	Point	Unit Description	Description Action	Permitting Action	Description of Change
U52	OS1	E112	N/A	N/A	Temporary Discharge Auger #1	Remove	Current Application	Remove from the Permit (i.e., unit permanently removed from service).
U54	OS	E119	CD40	PT119	Resin Extruder	Permit Modification	Current Application	Revise total HAP emission limit to 0.00765 tons/year. The value currently included in the permit only accounts for formaldehyde as noted.
U54	OS1	E115	N/A	PT115	Vacuum Loader	Permit Modification	Current Application	Update basis of of particulate emission limit from N.J.A.C. 7:27-6.2(a).
U54	OS2	E116	N/A	PT115	Hopper Dryer	Permit Modification	Current Application	Update basis of of particulate emission limit from N.J.A.C. 7:27-6.2(a).
U54	OS3	E117	N/A	PT115	Pigment Feeder 1	Permit Modification	Current Application	Update basis of of particulate emission limit from N.J.A.C. 7:27-6.2(a).
U54	OS4	E118	N/A	PT115	Pigment Feeder 2	Permit Modification	Current Application	Update basis of of particulate emission limit from N.J.A.C. 7:27-6.2(a).

**ATTACHMENT E-
PERMIT MARKUP**



State of New Jersey

Department of Environmental Protection
Air Quality, Energy and Sustainability
Division of Air Quality

PHILIP D. MURPHY

SHAWN M. LATOURETTE

Governor

Bureau of Stationary Sources

Commissioner

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401.02

SHEILA Y. OLIVER

Trenton, NJ 08625-0420

Lt. Governor

Air Pollution Control Operating Permit Significant Modification

Permit Activity Number: BOP190005

Program Interest Number: 51611

Mailing Address	Plant Location
KEVIN COGGINS PLANT MANAGER GEORGIA PACIFIC GYPSUM LLC 1101 S FRONT ST Camden, NJ 08103	GEORGIA-PACIFIC GYPSUM LLC 1101 S Front St Camden Camden County

Initial Operating Permit Approval Date:

July 28, 2005

Operating Permit Approval Date:

November 30, 2021

Operating Permit Expiration Date:

July 27, 2020 (Operating under application shield)

AUTHORITY AND APPLICABILITY

The New Jersey Department of Environmental Protection (Department) approves and issues this Air Pollution Control Operating Permit under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). This permit is issued in accordance with the air pollution control permit provisions promulgated at Title V of the Federal Clean Air Act, 40 CFR 70, Air Pollution Control Act codified at N.J.S.A. 26:2C and New Jersey State regulations promulgated at N.J.A.C. 7:27-22.

The Department approves this operating permit based on the evaluation of the certified information provided in the permit application that all equipment and air pollution control devices regulated in this permit comply with all applicable State and Federal regulations. The facility shall be operated in accordance with the conditions of this permit. This operating permit supersedes any previous Air Pollution Control Operating Permits issued to this facility by the Department including any general operating permits, renewals, significant modifications, minor modifications, seven-day notice changes or administrative amendments to the permit.

Changes made through this permit activity are provided in the Reason for Application.

PERMIT SHIELD

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

COMPLIANCE SCHEDULES

This operating permit does not include compliance schedules as part of the approved compliance plan.

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: <http://www.nj.gov/dep/aqpp>. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interest (PI) Number as instructed on the screen. If needed, the RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories and Compliance Schedules can be obtained by contacting the Helpline number given below. RADIUS software, instructions, and help are available at the Department's website at <http://www.nj.gov/dep/aqpp>.

HELPLINE

The Operating Permit Helpline is available for any questions at (609) 633-8248 from 9:00 AM to 4:00 PM Monday to Friday.

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application pursuant to N.J.A.C. 7:27-22.30. Only applications which are timely and administratively complete are eligible for an application shield. The details on the contents of the renewal application, submittal schedule, and application shield are available in Section B - General Provisions and Authorities of this permit.

COMPLIANCE ASSURANCE MONITORING

Facilities that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: <https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring>. In addition, CAM Plans must be included as part of the permit renewal application. Facilities that do not submit a CAM Plan may have their permit applications denied, pursuant to N.J.A.C. 7:27-22.3.

ADMINISTRATIVE HEARING REQUEST

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information specified in N.J.A.C. 7:27-1.32 and the information on the [NJ04 - Administrative Hearing Request Checklist and Tracking Form](https://www.state.nj.us/dep/aqpp/applying.html) available at <https://www.state.nj.us/dep/aqpp/applying.html>.

If you have any questions regarding this permit approval, please call Adam Pagarigan at (609) 777-0595.

Approved by:



Art Lehberger

Enclosure

CC: Suilin Chan, United States Environmental Protection Agency, Region 2

Facility Name: GEORGIA-PACIFIC GYPSUM LLC
Program Interest Number: 51611
Permit Activity Number: BOP190005

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Section A

Facility Name: GEORGIA-PACIFIC GYPSUM LLC

Program Interest Number: 51611

Permit Activity Number: BOP190005

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations¹ at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs* (total)	CO ₂ e ³
Emission Units Summary	3.8 2.5	30.1 19.7	22.0 18.7	3.4 0.14	48.1 12.9	35.3 19.9	30.1 16.4	NA <0.01	0.007 0.43	
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Emissions	3.8 2.5	30.1 19.7	22.0 18.7	3.4 0.14	48.1 12.9	35.3 19.9	30.1 16.4	NA <0.01	0.007 0.43	89,506 27,089

Table 2: Estimate of total emissions from all Insignificant Source Operations¹ and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs (total)
Insignificant Source Operations	0.379 0.12	4.34 1.3	1.92 1.2	0.024 0.01	0.683 0.02	0.608 0.10	N/A 0.10	NA <0.01	NA 0.03
Non-Source Fugitive Emissions ⁴	NA	NA	NA	NA	NA	NA	NA	NA	NA

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO₂e: Carbon Dioxide equivalent

N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

*Emissions of individual HAPs are provided in Table 3 on the next page.

Emissions of "Other" air contaminants are provided in Table 4 on the next page.

¹ Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.

² PM_{2.5} has been included in air permitting rules as of December 9, 2017. Consequently, PM_{2.5} totals in this section may not be up to date. The Department is in the process of updating these limits during each permit modification, and the entire permit will be updated at the time of permit renewal.

³ Total CO₂e emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.

⁴ Non-Source Fugitive Emissions are defined at N.J.A.C. 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: GEORGIA-PACIFIC GYPSUM LLC

Program Interest Number: 51611

Permit Activity Number: BOP190005

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations ⁵:

HAP	TPY
Formaldehyde	0.005
Polycyclic Organic Matter	0.002

Table 4: Summary of “Other” air contaminants emissions from Significant Source Operations:

Other Air Contaminant	TPY
NA	

⁵ Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section B

Facility Name: GEORGIA-PACIFIC GYPSUM LLC
Program Interest Number: 51611
Permit Activity Number: BOP190005

GENERAL PROVISIONS AND AUTHORITIES

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]
2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:
 - a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:
 - i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
 - ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or
 - b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or
 - c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)]
3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
10.
 - a. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.
 - b. For situations other than those covered above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:
 - i. The violation occurred as a result of an equipment malfunction, an equipment startup or shutdown, or during the performance of necessary equipment maintenance; and
 - ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]
11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]
12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]
13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.
16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).

17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
- a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.
 - b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
 - c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
 - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
 - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
 - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
 - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
 - h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
19. The permittee is responsible for submitting timely and administratively complete operating permit applications:
- Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
 - Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
 - Minor Modifications [N.J.A.C. 7:27-22.23(e)];
 - Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
 - Renewals [N.J.A.C. 7:27-22.30(b)].
20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal at: <http://njdeponline.com/>. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-

22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.

21. For all source emissions testing performed at the facility, the phrase “worst case conditions without creating an unsafe condition” used in the enclosed compliance plan is consistent with EPA’s National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
 - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
 - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
22. Consistent with EPA’s National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department’s Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]

Section C

Facility Name: GEORGIA-PACIFIC GYPSUM LLC

Program Interest Number: 51611

Permit Activity Number: BOP190005

STATE-ONLY APPLICABLE REQUIREMENTS

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable State requirements. The applicable State requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
B	---	1	---
B	---	13b	---
D	FC	---	3
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Section D

Facility Name: GEORGIA-PACIFIC GYPSUM LLC
Program Interest Number: 51611
Permit Activity Number: BOP190005

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

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Non-Source Fugitive Emissions (FG):

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FG	FG Summary	7

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IS3	Heater at knife area 2 – Nat. Gas fired (< 1 MMBTU/HR max. heat input)	8
IS4	Heater at knife area 3 – Nat. Gas fired (< 1 MMBTU/HR max. heat input)	8
IS5	Machine shop heater - Nat. Gas fired (< 1 MMBTU/HR max. heat input)	8
IS6	Space Heaters - 17 units, Nat.Gas fired (each unit < 1 MMBTU/HR max. heat input)	8
IS7	Paper Warmers 1 to 4 – Nat.Gas fired (each unit < 1 MMBTU/HR max. heat input)	8
IS8	Paper Warmers 5 to 8 – Nat.Gas fired (each unit < 1 MMBTU/HR max. heat input)	8
IS10	Storage/use of non-HAP chemicals in containers (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	9
IS11	Storage/use of non-HAP VOC containing chemicals in containers (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	9
IS13	2,500 gallon Distillate Fuel Oil Storage Tank (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	11
IS14	40,000 gallon Distillate Fuel Oil Storage Tank (>= 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	12
IS15	Solid Storage Vessels (each unit < 2,000 cubic feet in storage capacity)	14
IS16	Holding Tank storing liquids (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	9
IS17	Prime Paint Tank, 7,800 gallons (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	9
IS18	Liquid Storage Vessel < 1,000 gallons storage capacity, mixing liquids with vapor pressures < 1.5 psia, less water, in a non-reactive process	15
IS19	Gyperete Printing Area (< 0.5 gal/hr and < 2.5 gal/day ink usage per printer)	16
IS22	Temporary Diesel Generator (< 1 MMBtu/hr max.heat input, < 37 kw)	17
IS23	Temporary Storage Silo (< 2000 ft^3 capacity)	18
IS24	Three (3) Slitters (each slitter <= 50 lb/hr raw material process rate)	19
IS25	Cross-Cutter (<= 50 lb/hr raw material process rate)	19

IS26	Four (4) Natural Gas-Fired Space Heaters (0.2 MMBtu/hr each)	20
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GR NJID	GR Designation	GR Description	
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U NJID	U Designation	U Description	
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U6	OB1	Boiler for Office Heat	54
U8	PWH1	Process Water Heater	56
U9	AFT1	6,000 Gallon Soap Solution Tank containing ethanol	61
U10	ESDC	Board End Saw—used for cutting gypsum board to ordered size	62
U11	RD	Rotary Rock Dryer, Conveyor #8B, Load Skirt and Conveyor #8A—Source Skirt and Discharge Screw	63
U14	LPRB-LPBL	LP Reserve Bin #4 and Landplaster Bulk Loading	75
U15	WEDC	Stucco Supply Elevator, Stucco Recirc. Elevator, Dry Additive Elevator, Scalping Screw, Weigh Belt Feeder	81
U17	LPA1	Landplaster Pneumatic Conveying Process	87
U18	SMS1	Stucco Mixing Screw Conveyor	88
U19	BPS1	Board Stucco Silo #1	91
U20	BPS2	Board Stucco Silo #2	93
U21	441C	441 Screw Conveyor	95
U22	SRB1	Stucco Reserve Bin #1	97
U23	PMV1	Pin Mixer	98
U24	RM1 and RM2	Raymond Mill #1 and Raymond Mill #2	101
U26	4RB	Portland Cement Bin (aka Reserve Bin #4)	112
U27	LPB1	Landplaster Bin #1	123
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U30	SRB3-MPB1	Moulding Plaster Bin /Stucco Reserve Bin #3 /Molding Plaster Bin Elevator	129
U31	SC	Stucco Cooling	131
U34	RF	Reclaim Feeder and Belt Conveyor	148
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U37	LPB4	Landplaster Bin #4 (aka Board Plant Landplaster Bin)	183
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U39	SDS	Impact Mill Screen	205
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U42	BM	Ball Mills 1-4	236
U43	Wet End Vae	Wet End Vacuum System	238
U47	Reject Bin	Reject Bin Dust Collector	240
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U53	DeLumper	Franklin Miller DeLumper	250
U54	Resin Ext	Resin Extrusion Process	259

**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: BOP **Number:** 200001

Description of Modifications: This permit modification includes the following changes:

1. U7 Board Dryer: Remove the U7 emission unit compliance plan, associated equipment and emission points. Delete the annual PTE emission limits for VOC (-24.5 ton/yr), NOx (-33.6 ton/yr), CO (-40.9 ton/yr), SO2 (-13.5 ton/yr), TSP (-4.9 ton/yr), PM10 (-4.9 ton/yr), PM2.5 (-4.9 ton/yr) and total HAPs (-0.01 ton/yr).
2. U44 Dry End Central Vacuum System: Remove the U44 emission unit compliance plan, associated equipment, control device and emission points. Delete the annual PTE emission limits for TSP (-2.5 ton/yr), PM10 (-2.5 ton/yr) and PM2.5 (-2.5 ton/yr).
3. U14 LP Reserve Bin & Landplaster Bulk Loading (Incorporate minor modification BOP190001): Increase the annual material throughput from 219,000 to 657,000 tons/year, and increase the hourly material throughput from 50,000 to 150,000 lb/hr for U14 OS1 and OS2; Increase the annual PTE emission limit TSP from 0.054 to 1.65 ton/yr, PM10 from 0.054 to 1.56 ton/yr, and PM2.5 from 0.054 to 1.48 ton/yr; Add once initial stack testing to demonstrate compliance with short-term emission limits for TSP, PM10 & PM2.5, and outlet grain loading of 0.02 gr/dscf for OS1 and OS2.
4. U31 Stucco Cooling: Replace existing Stucco Loading Spout (E71) in U31 OS8 and Stucco Screener (E58) U31 OS10 with identical new equipment with same specifications; Increase the maximum operating hours from 1000 to 8760 hr/yr. Increase the annual PTE emission limit for U31: TSP from 1.01 to 1.58 ton/year, and PM10 and PM2.5 from 0.62 to 1.18 ton/year. Add once initial stack testing to demonstrate compliance with the NSPS Subpart OOO PM limit of 0.014 gr/dscf at maximum throughput rate.
5. U36 Blender/Packer System: Add new equipment Supersac Loading Spout (E103) in U36 OS7 for automated bulk bagging operation with a material throughput rate of 60,000 lb/hr. The OS7 maximum hourly emission limit for TSP and PM10 is 0.49 lb/hr. PM2.5 is below reporting threshold. Added the requirement that OS7 shall not operate simultaneously with the existing manual bagging operating scenarios U36 OS1 and OS6. Increase the hourly material throughput for U36 OS2 Plaster Blender/Weigher from 40,000 lb/hr to 60,000 lb/hr to match the material throughput of OS7. Increase the TSP and PM10 annual emission limits from below reporting threshold to 2.17 ton/yr.
6. U54 Resin Extrusion Process: Add new silo (E121) in OS7 to store polypropylene pellets and supply pellets to the extruder, equipped with 3 Cartridge Bin Vent filters (CD41, CD42, CD43) with a control efficiency greater than 99% efficiency during loading and unloading of material. The maximum hourly and annual OS7 PTE emission limits for TSP, PM10 and PM2.5 are 0.195 lb/hr and 0.853 ton/yr.
7. U2 Kettle Calciners: Reconfigure the Kettle #2 Calciner (E4) flue gas arrangement. No change in U2 emission limits.
8. U24 Raymod Mills: Replace the clean air plenums for both the Raymond Mill #2 (CD18) and Kettle #3 (CD3) dust collectors. No change in the emission limits.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: FC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-1. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: The permittee is prohibited from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27- 2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27- 2]
3	Prohibition of Air Pollution: The permittee shall not emit into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27- 5]	None.	None.	None.
4	Prevention and Control of Air Pollution Control Emergencies: Any person responsible for the operation of a source of air contamination set forth in Table 1 of N.J.A.C. 7:27-12 is required to prepare a written Standby Plan, consistent with good industrial practice and safe operating procedures, and be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person who operates a source not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offset Rules: The permittee shall comply with all applicable provisions of Emission Offset Rules. [N.J.A.C. 7:27-18]	None.	None.	None.
6	Emission Statements: The permittee shall comply with all the applicable provisions of N.J.A.C. 7:27-21. [N.J.A.C. 7:27-21]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: The permittee shall submit an annual Compliance Certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f). [N.J.A.C. 7:27-22]	None.	None.	<p>Submit an Annual Compliance Certification: Annually to the Department and to EPA within 60 days after the end of each calendar year during which this permit was in effect. The Compliance Certification shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The certification should be printed for submission to EPA.</p> <p>The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/. The Compliance Certification forms and instructions for submitting to EPA are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]</p>
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-24 and [N.J.A.C. 7:27-23]	None.	None.	None.
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	<p>Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]</p>
10	Prevention of Significant Deterioration: The permittee shall comply with all applicable provisions of Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos, Subpart M. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61]
12	Protection of Stratospheric Ozone: 1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Reports: The permittee shall submit to the Department a certified six-month Deviation Report relating to testing and monitoring required by the operating permit. [N.J.A.C. 7:27-22.19(d)3], [N.J.A.C. 7:27-22.19(e)], and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)] and [N.J.A.C. 7:27-22.19(e)].	Submit a report: As per the approved schedule. The six-month deviation reports for the period from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and for the period from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The annual compliance certification required by N.J.A.C. 7:27-22.19(f) may also be considered as your six-month Deviation Report for the period from July 1 – December 31, if submitted by January 30 of the following calendar year. The reports shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/ . The Compliance Certification forms are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
14	Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The Department and its authorized representatives shall have the right to enter and inspect any activity subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]	None.	None.	None.
17	The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10]	None.	None.	None.
18	Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the permittee makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The permittee is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)]	None.	None.	Comply with the requirement: Upon occurrence of event. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. [N.J.A.C. 7:27-22.18(j)]
19	Each process monitor must be operated at all times when the associated process equipment is operating except during service outage time not to exceed 24 hours per calendar quarter. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee must keep a service log to document any outage. [N.J.A.C. 7:27-22.16(o)]	None.
20	Continuous recording for process monitors must be at a sufficient frequency and resolution to be able to document compliance or non-compliance in accordance with Technical Manual 1005 for CEMS (TM1005(B)(3)). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The permittee shall perform a Facility Wide Particulate Matter and Risk Assessment as prescribed in Technical Manuals 1002 and 1003 for the next permit renewal prior to its issuance by the Department. [N.J.A.C. 7:27-22.3(cc)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: FG Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall operate under the approved Fugitive PM Management Plan under the section “Attachments to Facility Specific Requirements” of the Operating Permit. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by conditions in the Fugitive PM Management Plan.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by maintaining readily accessible records.[N.J.A.C. 7:27-22.16(o)].	Comply with the requirement: Upon occurrence of event any future revisions to the Fugitive PM Management Plan to reflect equipment and operational changes shall be submitted to the NJDEP Regional Enforcement Office for review and approval. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: ~~IS2 Heater at knife area 1 - Nat. Gas fired (< 1 MMBTU/HR max. heat input), IS3 Heater at knife area 2 - Nat. Gas fired (< 1 MMBTU/HR max. heat input), IS4 Heater at knife area 3 - Nat. Gas fired (< 1 MMBTU/HR max. heat input), IS5 Machine shop heater - Nat. Gas fired (< 1 MMBTU/HR max. heat input), IS6 Space Heaters - 17 units, Nat. Gas fired (each unit < 1 MMBTU/HR max. heat input), IS7 Paper Warmers 1 to 4 - Nat. Gas fired (each unit < 1 MMBTU/HR max. heat input), IS8 Paper Warmers 5 to 8 - Nat. Gas fired (each unit < 1 MMBTU/HR max. heat input)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional applicable requirements. [N.J.A.C. 7:27-22]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item:

~~IS10 Storage/use of non-HAP chemicals in containers (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia), IS11 Storage/use of non-HAP VOC containing chemicals in containers (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia), IS16 Holding Tank storing liquids (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia), IS17 Prime Paint Tank, 7,800 gallons (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets ALL the applicable requirements cited above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	Other: Maintain readily accessible certification records onsite.[N.J.A.C. 7:27-22.16(a)].	None.

BOP190005

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS13 2,500 gallon Distillate Fuel Oil Storage Tank (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: ~~IS14 40,000 gallon Distillate Fuel Oil Storage Tank (\geq 10,000 gallons, Non-Applicable VOC with vapor pressure $<$ 0.02 psia)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel \leq 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(e)]	None.
2	Sulfur Content in Fuel \leq 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(e)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(a)]	None.	None.	None.
4	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank(s) can not be subject to any NESHAPS, MACT, or NSPS air pollution control standards. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
11	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #4 to #10 above and (3) attests that the tank is in compliance with all other applicable State or Federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: ~~IS15 Solid Storage Vessels (each unit < 2,000 cubic feet in storage capacity)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
+	No additional applicable requirements. [N.J.A.C. 7:27-22]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: ~~IS18 Liquid Storage Vessel < 1,000 gallons storage capacity, mixing liquids with vapor pressures < 1.5 psia, less water, in a non-reactive process~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tank shall not be subject to any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets ALL the applicable requirements cited above and (3) attests that the tank is in compliance with all other applicable State or Federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	Other: Maintain readily accessible certification records onsite. [N.J.A.C. 7:27-22.16(a)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: ~~IS19 Gyperete Printing Area (< 0.5 gal/hr and < 2.5 gal/day ink usage per printer)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Printer ink hourly usage limit shall not exceed 0.5 gallons per hour [N.J.A.C. 7:27-16.7(e)1]	None.	None.	None.
2	Printer ink daily usage shall not exceed 2.5 gallons per day. [N.J.A.C. 7:27-16.7(e)1]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: ~~IS22 Temporary Diesel Generator (< 1 MMBtu/hr max.heat input, < 37 kw)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible- condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27-3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)]	None.	None.	None.
4	Hours of Operation <= 960 hr/yr, from BOP160004. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain onsite records that are easily accessible for Department inspection. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator of a nonroad compression ignition engine must comply with the certification emission standards in 40 CFR 89 for the same model year and maximum engine power. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator must keep manufacturer certification showing compliance with the applicable emission standards in 40 CFR 89 for the same model year and maximum engine power. [N.J.A.C. 7:27-22.16(o)].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: ~~IS23 Temporary Storage Silo (< 2000 ft³ capacity)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: ~~IS24 Three (3) Slitters (each slitter <= 50 lb/hr raw material process rate), IS25 Cross Cutter (<= 50 lb/hr raw material process rate)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
+	Opacity <= 20 %, exclusive of condensed water vapor, except for 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27-6.2(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS26 Four (4) Natural Gas-Fired Space Heaters (0.2 MMBtu/hr each)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(c)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS27 – Bake-Off Oven (<= 50 lb/hr raw material process rate)

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>1</u>	<u>Opacity <= 20%, exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27-6.2(e)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS28 – Autowinder Splicer (<= 50 lb/hr raw material process rate)

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>1</u>	<u>Opacity <= 20%, exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27-6.2(e)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: GR1 NSPS General Provisions

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
2	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
3	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
5	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.
6	Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.
8	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
9	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.
11	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]	None.	None.	None.
13	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
15	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The owner or operator shall demonstrate compliance with NSPS opacity standards specified in 40 CFR Part 60. [40 CFR 60.11(b)]	Monitored by visual determination once initially, based on 6 minute blocks. Testing shall be conducted using Reference Method 9 in Appendix A of NSPS. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-min averages) for the performance test. [40 CFR 60.11(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain records of opacity of emissions based on Method 9 observations. [40 CFR 60.11(e)(2)]	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of Method 9 observation data to the Administrator. [40 CFR 60.11(e)(2)]
17	The NSPS opacity standard shall apply at all times except during periods of startup, shutdown, malfunctions and as otherwise specified in the applicable standard. [40 CFR 60.11(c)]	None.	None.	None.
18	At all times, including periods of start-up, 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. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.
19	For the purpose of demonstrating initial compliance, opacity observations shall be conducted concurrently with the initial performance test required in 40 CFR Part 60.8. If no performance test is required to be performed, then opacity observations shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated but no later than 180 days after initial startup of the facility. [40 CFR 60.11(e)(1)]	None.	None.	Submit notification: As per the approved schedule. The owner or operator shall notify the Administrator of the anticipated date for conducting the opacity observation. The notification shall also include, if appropriate, a request for the Administrator to provide a visible emissions reader during the performance test. The notification shall be postmarked not less than 30 days prior to such a date. [40 CFR 60.7(a)(6)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
21	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
22	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U2 Kettle Calciners #1, #2 and #3

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a gross heat input of at least five million BTU per hour or more shall adjust the combustion process annually in the same quarter of each calendar year. The adjustment of the combustion process shall be done in accordance with the procedure set forth at N.J.A.C. 7:27-19.16. [N.J.A.C. 7:27-16.8(b)], [N.J.A.C. 7:27-16.8(c)] and [N.J.A.C. 7:27-19.7(g)]	Monitored by periodic emission monitoring annually. The owner or operator shall perform the adjustment of the combustion process in accordance with the specific procedures for combustion adjustment monitoring specified in NJDEP Technical Manual 1005 and the procedure set forth at N.J.A.C. 7:27-19.16(a) as follows: 1. Inspect the burner, and clean or replace any components of the burner as necessary; 2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications; 3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly; 4. Minimize the total emissions of NOx and CO consistent with the manufacturer's specifications; 5. Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and 6. Convert the emission values of NOx, CO and O2 concentrations measured in lb/MMBTU according to the following formula: $\text{Lb/MMBTU} = \text{ppmvd} * \text{MW} * \text{F dry factor} * \text{O2 correction factor} / 387,000,000$, where: ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO; MW is the Molecular Weight for NOx=46 lb/lb-mole, CO=28 lb/lb-mole; F Dry factor for: Natural Gas = 8,710 dscf/MMBTU, Residual or fuel oil = 9,190 dscf/MMBTU; O2 correction factor: $(20.9\%) / (20.9\% - \text{O2 measured})$, where O2 measured is percent oxygen on a dry basis. [N.J.A.C. 7:27-19.16(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon performing combustion adjustment of the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title and affiliation of the person who made the adjustment; 3. The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made; 4. The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured; 5. A description of any corrective action taken; 6. Results from any subsequent test performed after taking any corrective action, including concentrations and converted emission values in (lb/MMBTU); 7. The type and amount of fuel used over the 12 months prior to the annual adjustment; 8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the source operation. The records must be retained for a minimum of five years and to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(b)]	Submit a report: Annually. The owner or operator shall submit an annual adjustment combustion process report to the department within 45 days after the adjustment of the combustion process is completed. The report shall be submitted electronically to: www.njdeponline.com . Instructions for submitting this report online are specified at: http://www.nj.gov/dep/aqpp/adjustment.htm . [N.J.A.C. 7:27-19.16(d)] and [N.J.A.C. 7:27-19.16(c)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)]	Other: Monitored by the operating parameter settings that are established after the combustion process is adjusted in order to operate consistent with the annual adjustment. [N.J.A.C. 7:27-19.16(e)].	Other: The owner or operator shall record the operating parameter settings that are established after the combustion process is adjusted and retain until the next annual adjustment, to be made readily accessible to the Department upon request. [N.J.A.C. 7:27-19.16(e)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent by volume of the VOC from each source operation as specified in [N.J.A.C. 7:27-16.16(c)] and. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manual logging of VOC (Total) hourly emission rate per change of material, in a logbook or readily accessible computer memory. The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. The maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used for each process. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under operating conditions. The records shall be maintained for a period of no less than five years and make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.16(g)] and.[N.J.A.C. 7:27-16.22(a)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	VOC (Total) <= 1.67 1.70 tons/yr combined for Kettle Calciners #1, #2 and #3. [N.J.A.C. 7:27-22.16(a)]	<p>VOC (Total): Monitored by calculations quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The annual emission rate shall be calculated using the quantity of each the fuel used and the following emission factors:</p> <p>Kettle Calciner #1: 0.017 lbs/MMbtu for natural gas and 0.036 lbs/MMbtu for low sulfur distillate fuel oil.</p> <p>Kettle Calciner #2 and #3: 0.005 lbs/MMbtu for natural gas and 0.002 lbs/MMbtu for low sulfur distillate fuel oil.</p> <p>Process emissions and coating/printing emissions shall be calculated using mass balance. [N.J.A.C. 7:27-22.16(o)]</p>	VOC (Total): Recordkeeping by manual logging of parameter quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The emission calculations shall be recorded. [N.J.A.C. 7:27-22.16(e)]	None.
5	NOx (Total) <= 14.8 16.4 tons/yr combined for Kettle Calciners #1, #2 and #3. [N.J.A.C. 7:27-22.16(a)]	<p>NOx (Total): Monitored by calculations quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The annual emission rate shall be calculated using the quantity of each fuel used and the following emission factors:</p> <p>Kettle Calciner #1: 0.072 lbs/MMbtu for natural gas and 0.193 lbs/MMbtu for low sulfur distillate fuel oil.</p> <p>Kettle Calciner #2 and #3: 0.098 lbs/MMbtu for natural gas and 0.141 lbs/MMbtu for low sulfur distillate fuel oil.</p> <p>[N.J.A.C. 7:27-22.16(o)]</p>	NOx (Total): Recordkeeping by manual logging of parameter quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The emission calculations shall be recorded. [N.J.A.C. 7:27-22.16(e)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO <= 10.7 <u>12.4</u> tons/yr combined for Kettle Calciners #1, #2 and #3. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The annual emission rate shall be calculated using the quantity of each fuel used and the following emission factors: Kettle Calciner #1: 0.037 lbs/MMbtu for natural gas and 0.079 lbs/MMbtu for low sulfur distillate fuel oil. Kettle Calciner #2 and #3: 0.082 lbs/MMbtu for natural gas and 0.035 lbs/MMbtu for low sulfur distillate fuel oil. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The emission calculations shall be recorded. [N.J.A.C. 7:27-22.16(e)]	None.
7	TSP <= 2.04 <u>1.92</u> tons/yr combined for Kettle Calciners #1, #2 and #3. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The annual emission rate shall be calculated using the quantity of each fuel used and the following emission factors: Kettle Calciner #1, #2 and #3: 0.0075 <u>1.86E-3</u> lbs/MMbtu for natural gas, 0.0232 lbs/MMbtu for low sulfur distillate fuel oil and and 0.006 <u>0.0232</u> lbs/ton for process emissions. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The emission calculations shall be recorded. [N.J.A.C. 7:27-22.16(o)]	None.
8	PM-10 (Total) <= 2.04 <u>7.47</u> tons/yr combined for Kettle Calciners #1, #2 and #3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) <= 2.04 <u>7.47</u> tons/yr combined for Kettle Calciners #1, #2 and #3. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Fuel limited to natural gas and ultra low sulfur distillate oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c. for CD1. (Applies to U2 OS1, OS2 and OS3). [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
12	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c. for CD2. (Applies to U2 OS3, OS4 , OS5 and OS6). [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
13	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c. for CD3. (Applies to U2 OS7 , OS5 , OS8 and OS9 OS6). [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
14	The permittee shall inspect and maintain each dust collector, CD1, CD2 and CD3 and replace the filter media on a schedule which will ensure the dust collector efficiency is maintained. Each dust collector, CD1, CD2 and CD3, shall be operated and maintained in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Emission Unit: U2 Kettle Calciners #1, #2 and #3

Operating Scenario: OS1 Kettle #1 Natural Gas combustion emissions - E3-CD1-PT3-PT4

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6.8 lb/hr based on maximum heat input rate. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)], [N.J.A.C. 7:27-3.2(c)] and [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) <= 0.238 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 1.01 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 0.518 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	TSP <= 0.0344 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0.1044 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.1044 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 14 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
10	Natural Gas Usage <= 122,640.6 MM ³ Btu (HHV) for any 12 consecutive months based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a log book or in readily accessible computer memories. Cubic feet for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
12	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
13	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
14	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Other: Recordkeeping by manual logging of event or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook.[40 CFR 60.7(b)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Maintain a file of all measurements. (NSPS Subpart A) [40 CFR 60.7(f)]	None.	Other: Recordkeeping by manual logging of all measurements or storing data in a computer data system continuously. Maintain a file of all measurements, incl. continuous monitoring systems, monitoring device, & performance testing measurements: all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks: adjustments & maintenance performed on these systems or devices: & all other information required by this part recorded in a permanent form suitable for inspections. The file shall be retained for a least 2 years following the date of such measurements, maintenance, reports, & records.[40 CFR 60.7(f)].	None.
16	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
17	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
19	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
20	Particulate Emissions $\leq 0.0\text{2540}$ gr/scf (dry) or 0.05792 g/dscm. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(a)]	None.	None.	None.
21	Opacity $\leq 10\%$. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(b)]	None.	None.	None.

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~~Emission Unit: U2 Kettle Calciners #1, #2 and #3~~~~Operating Scenario: OS2 Kettle #1 Ultra Low Sulfur Distillate Fuel Oil combustion emissions E3 CD1 PT3 PT4~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 6.8 lb/hr based on maximum heat input rate. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-3.2(a)], [N.J.A.C. 7:27-3.2(c)] and [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, exclusive of visible condensed water vapor, to be greater than prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing/controlling the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Sulfur Content in Fuel \leq 0.0015 % by weight. [N.J.A.C. 7:27-22.16(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Sulfur Content in Fuel \leq 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)]	None.	None.	None.
6	VOC (Total) \leq 0.504 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) \leq 2.702 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO \leq 1.106 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	TSP \leq 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-10 (Total) \leq 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	PM-2.5 (Total) \leq 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Maximum emission rate of SO₂ based on ultra low sulfur fuel oil is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Maximum Gross Heat Input \leq 14 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Fuel Oil Usage \leq 367,000 gallons for any 12 consecutive months. Maximum #2 fuel oil usage based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a log book or in readily accessible computer memories. Gallons for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(e)]	None.
15	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
16	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
17	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]

U2 Kettle Calciners #1, #2 and #3

OS2

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS-Subpart A) [40 CFR 60.7(b)]	None.	Other: Recordkeeping by manual logging of event or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)].	None.
19	Maintain a file of all measurements. (NSPS-Subpart A) [40 CFR 60.7(f)]	None.	Other: Recordkeeping by manual logging of all measurements or storing data in a computer data system continuously. Maintain a file of all measurements, incl. continuous monitoring systems, monitoring device, & performance testing measurements: all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments & maintenance performed on these systems or devices; & all other information required by this part recorded in a permanent form suitable for inspections. The file shall be retained for a least 2 years following the date of such measurements, maintenance, reports, & records. [40 CFR 60.7(f)].	None.
20	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. (NSPS-Subpart A) [40 CFR 60.11(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
22	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
23	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
24	Particulate Emissions \leq 0.025 gr/sef (dry) or 0.057 g/dsem. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Opacity \leq 10 %. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(b)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U2 Kettle Calciners #1, #2 and #3

Operating Scenario: ~~OS3~~ OS2 Kettle #1 emissions Only - E3-CD1-PT4

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.6 lb/hr based on 0.02 grains per scf. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No Visible Emissions: There shall be no visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive thirty minute period. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP <= 0. 12 <u>12</u> lb/hr. [N.J.A.C. 7:27- 22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 0. 12 <u>46</u> lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 0. 12 <u>46</u> lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of material delivery records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
8	Total Material Transferred <= 40,000 lb/hr. Maximum output rate based on operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
9	Total Material Transferred <= 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
11	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
12	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
13	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Other: Recordkeeping by manual logging of event or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook.[40 CFR 60.7(b)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Maintain a file of all measurements. (NSPS Subpart A) [40 CFR 60.7(f)]	None.	Other: Recordkeeping by manual logging of all measurements or storing data in a computer data system continuously. Maintain a file of all measurements, incl. continuous monitoring systems, monitoring device, & performance testing measurements: all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks: adjustments & maintenance performed on these systems or devices: & all other information required by this part recorded in a permanent form suitable for inspections. The file shall be retained for a least 2 years following the date of such measurements, maintenance, reports, & records.[40 CFR 60.7(f)].	None.
15	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
16	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
18	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
19	Particulate Emissions ≤ 0.02540 gr/scf (dry) or 0.05792 g/dscm. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(a)]	None.	None.	None.
20	Opacity $\leq 10\%$. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U2 Kettle Calciners #1, #2 and #3

Operating Scenario: OS~~4~~ Kettle #2 Natural Gas combustion emissions - E4-CD2-PT5-PT6, OS~~7~~⁵ Kettle #3 Natural Gas combustion emissions - E5-CD3-PT7-PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 6.8 lb/hr based on maximum heat input rate. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
3	VOC (Total) <= 0.08 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 1.38 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 1.16 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0. 12 ⁰³ lb/hr based on emission factors from AP-42 Section 11.6. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 0. 12 ¹⁰ lb/hr based on emission factors from AP-42 Section 11.6. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 0. 14 ¹⁰ lb/hr based on PM-10 emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 14 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
10	Natural Gas Usage <= 98 ^{122.640} MM ft ³ Btu (HHV) for any 12 consecutive months. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a log book or in readily accessible computer memories. Cubic feet for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U2 Kettle Calciners #1, #2 and #3

11	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
12	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
13	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U2 Kettle Calciners #1, #2 and #3

14	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Other: Recordkeeping by manual logging of event or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook.[40 CFR 60.7(b)].	None.
15	Maintain a file of all measurements. (NSPS Subpart A) [40 CFR 60.7(f)]	None.	Other: Recordkeeping by manual logging of all measurements or storing data in a computer data system continuously. Maintain a file of all measurements, incl. continuous monitoring systems, monitoring device, & performance testing measurements: all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks: adjustments & maintenance performed on these systems or devices: & all other information required by this part recorded in a permanent form suitable for inspections. The file shall be retained for a least 2 years following the date of such measurements, maintenance, reports, & records.[40 CFR 60.7(f)].	None.
16	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U2 Kettle Calciners #1, #2 and #3

17	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
18	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	18
19	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	19
20	Particulate Emissions <= 0.040 gr/scf (dry) or 0.092 g/dscm. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U2 Kettle Calciners #1, #2 and #3

21	Opacity <= 10 %. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(b)]	None.	None.	None.
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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U2 Kettle Calciners #1, #2 and #3

Operating Scenario: ~~OS5 Kettle #2 Ultra Low Sulfur Distillate Fuel Oil combustion emissions—E4-CD2-PT5-PT6, OS8 Kettle #3 Ultra Low Sulfur Distillate Fuel Oil combustion emissions—E5-CD3-PT7-PT8~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 6.8 lb/hr based on maximum heat input rate. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, exclusive of visible condensed water vapor, to be greater than prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing/controlling the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event each month (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Sulfur Content in Fuel \leq 0.0015 % by weight. [N.J.A.C. 7:27-22.16(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Sulfur Content in Fuel \leq 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
5	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)]	None.	None.	None.
6	NO_x (Total) \leq 1.98 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO \leq 0.5 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP \leq 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) \leq 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	PM-2.5 (Total) \leq 0.33 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum emission rate of VOC and SO₂ are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Maximum Gross Heat Input \leq 14 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Fuel Oil Usage \leq 100,000 gallons for any 12 consecutive months. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a log book or in readily accessible computer memories. Gallons for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(e)]	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U2 Kettle Calciners #1, #2 and #3

Operating Scenario: ~~OS6~~ OS4 Kettle #2 emissions only - E4-CD2-PT6, ~~OS9~~ OS6 Kettle #3 emissions only - E5-CD3-PT8

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.55 lb/hr based on 99% collection efficiency of baghouse. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	TSP <= 0.12 lb/hr based on emission factors from AP-42 Section 11.6. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0. 12 <u>46</u> lb/hr based on emission factors from AP-42 Section 11.6. <u>and test data from a similar source.</u> [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-2.5 (Total) <= 0. 12 <u>46</u> lb/hr based on PM10 emissions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of material delivery records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
7	Total Material Transferred <= 40,000 lb/hr. Maximum output rate based on operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
8	Total Material Transferred <= 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
<u>9</u>	<u>All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II</u>	<u>None.</u>	<u>None.</u>	<u>Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]</u>

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	Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]			
10	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
11	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
12	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Other: Recordkeeping by manual logging of event or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook.[40 CFR 60.7(b)].	None.
13	Maintain a file of all measurements. (NSPS Subpart A) [40 CFR 60.7(f)]	None.	Other: Recordkeeping by manual logging of all measurements or storing data in a computer data system continuously. Maintain a file of all measurements, incl. continuous monitoring systems, monitoring device, & performance testing measurements: all continuous monitoring system	None.

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			performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments & maintenance performed on these systems or devices: & all other information required by this part recorded in a permanent form suitable for inspections. The file shall be retained for a least 2 years following the date of such measurements, maintenance, reports, & records.[40 CFR 60.7(f)].	
14	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
15	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
16	Maintain a file of all measurements. (NSPS Subpart A) [40 CFR 60.7(f)]	None.	Other: Recordkeeping by manual logging of all measurements or storing data in a computer data system continuously. Maintain a file of all measurements, incl. continuous monitoring systems, monitoring device, & performance testing measurements: all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments & maintenance performed on these systems or devices: & all other information required by this part recorded in a permanent form	None.

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			suitable for inspections. The file shall be retained for a least 2 years following the date of such measurements, maintenance, reports, & records.[40 CFR 60.7(f)].	
17	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
18	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
19	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
20	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
21	Particulate Emissions <= 0.040 gr/scf (dry) or 0.092 g/dscm. Each owner or operator of any affected facility that is subject to the	None.	None.	None.

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	requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(a)]			
22	Opacity <= 10 %. Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by 40 CFR 60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. (NSPS Subpart UUU). [40 CFR 60.732(b)]	None.	None.	None.

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Emission Unit: U6 Boiler for Office Heat

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 1.5 lb/hr based on maximum heat input rate. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
3	NOx (Total) <= 1.07 tons/yr based on Initial operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	CO <= 0.9 tons/yr based on General Permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Maximum Gross Heat Input <= 2.5 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: U6 Boiler for Office Heat

Operating Scenario: OS1 Office Heat Boiler - Natural Gas - E6-PT9

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NOx (Total) <= 0.25 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO <= 0.21 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Fuel limited to natural gas. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Natural Gas Usage <= 21,521,900 ^{21,900} MM ³ Btu per calendar year. Maximum usage based on fuel higher heating value of 1,020 Btu/scf and 8760 hours/year operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Maximum emission rate of VOC, SO2, TSP, PM10 from operating permit application are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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~~Emission Unit: U8 Process Water Heater~~~~Operating Scenario: OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 1.01 lb/hr based on maximum heat input rate. [N.J.A.C. 7:27-4.2(a)]	None.	None.	None.
2	Maximum Gross Heat Input \leq 1.68 MMBTU/hr. Maximum gross heat input based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].	None.
3	NO_x (Total) \leq 1.04 tons/yr. Maximum annual emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	CO \leq 0.26 tons/yr. Maximum annual emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	SO₂ \leq 0.005 tons/yr. Maximum annual emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Fuel use limited to natural gas as the primary fuel and #2 fuel oil as the secondary fuel (emergency use only per MACT Subpart JJJJ) from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The owner or operator shall operate the Process Heater (U8, E8) as a gas-fired boiler as defined in MACT Subpart JJJJJ, 40 CFR 63.11237.</p> <p>The gas-fired boiler shall only operate on fuel oil if:</p> <ol style="list-style-type: none"> 1) the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 2) the owner or operator's inability to obtain natural gas due to circumstances beyond the control of the owner or operator, such as a natural gas curtailment; and 3) the combustion source ceases using fuel oil or other liquid fuel in place of natural gas and resumes using natural gas as soon as a sufficient supply of natural gas becomes practicably available. <p>However, the owner or operator may periodically fire fuel oil or other liquid fuel for testing and maintenance. The owner or operator shall not fire fuel oil or other liquid fuel for testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be unhealthy for sensitive groups, unhealthy, or very unhealthy as shown at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast. [40 CFR 63.11237], [40 CFR 63.11195(e)] (MACT Subpart JJJJJ) & [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitor boiler fuel usage. [N.J.A.C. 7:27-22.16(e)].</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain records that include the following:</p> <p>For curtailment periods;</p> <ol style="list-style-type: none"> 1) information sufficient to identify each combustion source for which the owner or operator claims an exemption, including a brief description of the source, its location, its permit number, and other identifying numbers, and any other information necessary to distinguish it from other equipment owned and operated by the facility; 2) a statement that the owner or operator is not practicably able to obtain a sufficient supply of natural gas; 3) the date and time at which the owner or operator first became practicably unable to obtain natural gas; and 4) a description of the circumstances causing the owner or operator's inability to obtain natural gas. <p>For testing and maintenance periods;</p> <ol style="list-style-type: none"> 1) the date and number of hours fuel oil or other liquid fuel has been combusted for testing and maintenance. [N.J.A.C. 7:27-22.16(e)] 	<p>None.</p>

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~~Emission Unit: U8 Process Water Heater~~~~Operating Scenario: OS1 Burning Natural Gas fuel E8 PT13~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(e)]	None.	None.	None.
2	Natural Gas Usage \leq 9,447 MMft³/yr based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NO_x (Total) \leq 0.16 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rate of VOC, CO, SO₂, TSP, PM₁₀ from operating permit application are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

~~Emission Unit: U8 Process Water Heater~~~~Operating Scenario: OS2 Burning #2 fuel oil E8 PT13 (emergency use only per MACT Subpart JJJJJ)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27-3.2(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, exclusive of visible condensed water vapor, to be greater than prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing/controlling the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter each month during operation (in a permanently bound logbook or other electronic data management system) and retain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Sulfur Content in Fuel \leq 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(e)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)]	None.	None.	None.
5	NOx (Total) \leq 0.24 lb/hr. Maximum hourly emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	CO \leq 0.06 lb/hr. Maximum hourly emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	SO₂ \leq 0.0852 lb/hr. Maximum hourly emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Maximum emission rate of VOC, TSP, PM₁₀ from operating permit application are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Hours of Operation \leq 48 hours while firing fuel oil or other liquid fuel. Periodic testing on liquid fuel shall not exceed a combined total of 48 hours during any calendar year to qualify as a gas-fired boiler as defined in MACT Subpart JJJJJ, 40 CFR 63.11237. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor boiler hours of operation firing fuel oil for periodic testing. [N.J.A.C. 7:27-22.16(e)].	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the number of hours the fuel is combusted for periodic testing and the calendar year total. Maintain on-site records that are easily accessible for Department inspection. [N.J.A.C. 7:27-22.16(e)]	None.

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~~Emission Unit: U9 6,000 Gallon Soap Solution Tank containing ethanol~~~~Operating Scenario: OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank contents limited to mixture of ethanol and ammonium alcohol ether sulfate or similar foaming agent mixture. The vapor pressure of the mixture shall be \leq 5.87 KPa at 20 degrees Celsius. [N.J.A.C. 7:27-22.16(e)]	Other: For each delivery, monitor by reviewing delivery records such as MSDS, invoice, and/or bill of lading that show content, vapor pressure and quantity of the delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain delivery records per delivery. The records shall indicate content of delivery, quantity delivered, date of delivery with sum to date. [N.J.A.C. 7:27-22.16(e)].	None.
2	VOC (Total) \leq 0.16 tons/yr based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Material Transferred \leq 17,000 gal/yr. Maximum annual throughput based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: For each delivery, monitor by reviewing delivery records such as invoice, and/or bill of lading that show content and quantity of the delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain delivery records per delivery. The records shall indicate content of delivery, quantity delivered, date of delivery with sum to date. [N.J.A.C. 7:27-22.16(e)].	None.

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Emission Unit: ~~U10 Board End Saw - used for cutting gypsum board to ordered size~~**Operating Scenario:** ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions ≤ 0.62 lb/hr based on 0.02 grains per sec. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity ≤ 20 % , exclusive of visible-condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period including periods of startup and shutdown. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27-6.2(e)]	None.	None.	None.
3	Maximum emission rate of TSP from preconstruction permit is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Raw material limited to finished gypsum wallboard products based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by reviewing production records. [N.J.A.C. 7:27-22.16(o)].	Recordkeeping by production records once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Material Transferred ≤ 600 lb/hr . Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred ≤ 2,400 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
7	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range-current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.

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Emission Unit: ~~U11 Rotary Rock Dryer, Conveyor #8B, Load Skirt and Conveyor #8A Source Skirt and Discharge Screw~~

Operating Scenario: ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity \leq 20 %, exclusive of visible-condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period including periods of startup and shutdown. [N.J.A.C. 7:27-6.2(d)] and, [N.J.A.C. 7:27-6.2(e)]	None.	None.	None.
2	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) \leq 0.18 tons/yr. Maximum annual emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) \leq 9.32 tons/yr. Maximum annual emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO \leq 2.39 tons/yr. Maximum annual emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO₂ \leq 3.4 tons/yr. Maximum annual emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP \leq 21.38 tons/yr. Based on maximum hourly emission rate and maximum Total Material Transferred, 932,400 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) \leq 12.3 tons/yr. Based on maximum hourly emission rate firing natural gas and maximum Total Material Transferred, 932,400 tons/yr, from operating permit minor modification BOP070002 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	PM-2.5 (Total) \leq 12.3 tons/yr from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	HAPs (Total) \leq 0.0016 tons/yr. Maximum annual emission rate based on permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Polycyclic organic matter \leq 0.0016 tons/yr. Maximum annual emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Maximum Gross Heat Input \leq 45.5 MMBTU/hr (HHV) based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate. [N.J.A.C. 7:27-22.16(o)].	None.
13	Fuel limited to natural gas and #2 distillate oil based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
15	Raw material limited to gypsum ore based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by review of material delivery records. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices or bills of lading showing contents of each delivery. [N.J.A.C. 7:27-22.16(o)].	None.
16	Total Material Transferred \leq 175 tons/hr. Maximum material processing rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Total Material Transferred: Monitored by material feed/flow monitoring daily. Monitor hours of operation and tons per day throughput, each day during operation. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. Record daily throughput (tons/day) each day during operation. [N.J.A.C. 7:27-22.16(o)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Total Material Transferred \leq 932,400 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Total Material Transferred: Monitored by material feed/flow monitoring daily. Monitor monthly throughput. [N.J.A.C. 7:27-22.16(e)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record monthly throughput (tons/month) and sum to date (tons/yr). [N.J.A.C. 7:27-22.16(e)]	None.
18	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a series of stack tests for PM-10 (Total) at emission point PT16, firing No. 2 Fuel Oil, while operating OS2, OS3, OS4, OS5 simultaneously, within 180 days of initial use of #2 Fuel Oil. The test results shall be submitted to BtS for approval after each test. In addition, all test results shall be submitted to the BOP with a modification application to request a PM10-lb/hr emission limit. The owner or operator shall determine the number of stack tests needed to determine a PM10 emission limit.</p> <p>Testing must be conducted at worst-case-permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	Other: The stack test must be conducted within 180 days after initial use of #2 Fuel Oil. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(e)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(e)].	<p>Stack Test—Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625, within 180 days of initial use of #2 Fuel Oil. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.18(h)]</p>
19	PM-10 (Total): The owner or operator shall submit an Operating Permit Modification application requesting a PM10 emission limit for the Rotary Dryer firing No. 2 Fuel Oil, pursuant to N.J.A.C. 7:27-22.23 or N.J.A.C. 7:27-22.24, within 180 days after submitting stack test results in the preceding requirement. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit documentation of compliance: As per the approved schedule. Submit a permit modification application within 180 days after submitting stack test results in the preceding requirement. [N.J.A.C. 7:27-22.16(e)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U11 Rotary Rock Dryer, Conveyor #8B, Load Skirt and Conveyor #8A Source Skirt and Discharge Screw~~

Operating Scenario: ~~OS1 Rotary dryer used to dry gypsum rock firing natural gas E11-CD5-PT16~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 7.4 lb/hr. Maximum allowable emission rate based on 0.02 grains per sec. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) \leq 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent by volume of the VOC from each source operation. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used. [N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. The maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used for each process. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under operating conditions. The records shall be maintained for a period of no less than five years and make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.16(g)1] and [N.J.A.C. 7:27-16.22(a)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Natural Gas Usage \leq 133.2 MMft³ for any 12 consecutive months based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a log book or in readily accessible computer memories. Cubic feet for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(e)]	None.
4	VOC (Total) \leq 0.07 lb/hr. Maximum hourly emission rates based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	NOx (Total) \leq 3.5 lb/hr. Maximum hourly emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	CO \leq 0.88 lb/hr. Maximum hourly emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	TSP \leq 7.4 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) \leq 4.6 lb/hr includes U11-OS3, U11-OS4, U11-OS5 based on stack test results from operating permit minor modification BOP070002 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-2.5 (Total) \leq 4.6 lb/hr includes U11-OS3, U11-OS4, U11-OS5 from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U11 Rotary Rock Dryer, Conveyor #8B, Load Skirt and Conveyor #8A Source Skirt and Discharge Screw~~

Operating Scenario: ~~OS2 Rotary dryer used to dry gypsum rock firing No. 2 fuel oil E11 CD5 PT16~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 7.4 lb/hr. Maximum allowable emission rate based on 0.02 grains per sec. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	VOC (Total) \leq 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent by volume of the VOC from each source operation. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used. [N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. The maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used for each process. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under operating conditions. The records shall be maintained for a period of no less than five years and make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.16(g)] and [N.J.A.C. 7:27-16.22(a)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Fuel Oil Usage \leq 956,900 gallons for any 12 consecutive months. Maximum annual fuel oil usage based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(e)]	Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a log book or in readily accessible computer memories. Gallons for any 12 consecutive months is computed by adding the fuel consumed in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(e)]	None.
7	VOC (Total) \leq 0.036 lb/hr. Maximum hourly emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	NOx (Total) \leq 3.6 lb/hr. Maximum hourly emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	CO \leq 0.9 lb/hr. Maximum hourly emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	SO ₂ \leq 2.31 lb/hr. Maximum hourly emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	TSP \leq 7.4 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total): Hourly emission rate to be established from stack test(s) results. Stack test to be performed after initial use of #2 Fuel Oil and must be conducted within 180 days of the approval of the stack test protocol (See stack test requirements in U11 OS Summary). [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing at the approved frequency, based on any 60 minute period. See stack test requirements in U11 OS Summary. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Recordkeeping by stack test results at the approved frequency. See stack test requirements in U11 OS Summary. [N.J.A.C. 7:27-22.16(e)]	Stack Test—Submit protocol, conduct test and submit results. As per the approved schedule. See stack test requirements in U11 OS Summary. [N.J.A.C. 7:27-22.16(e)]
13	HAPs (Total) \leq 0.0016 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Polycyclic organic matter \leq 0.0016 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U11 Rotary Rock Dryer, Conveyor #8B, Load Skirt and Conveyor #8A Source Skirt and Discharge Screw~~

Operating Scenario: ~~OS3 Belt conveyor #8B Load Skirt E12 CD5 PT16~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.5 lb/hr. Maximum allowable emission rate based on 0.02 grains per sec. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	TSP \leq 0.2 lb/hr. Maximum emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-10 (Total) \leq 0.2 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Recordkeeping by stack test results once initially. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]	Stack Test—Submit protocol, conduct test and submit results. As per the approved schedule. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]
4	PM-2.5 (Total) \leq 0.2 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U11 Rotary Rock Dryer, Conveyor #8B, Load Skirt and Conveyor #8A Source Skirt and Discharge Screw~~

Operating Scenario: ~~OS4 Belt conveyor #8A Discharge Chute E13 CD5 PT16~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.5 lb/hr. Maximum allowable emission rate based on 0.02 grains per sec. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	TSP \leq 0.2 lb/hr. Maximum emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-10 (Total) \leq 0.2 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Recordkeeping by stack test results once initially. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]	Stack Test—Submit protocol, conduct test and submit results. As per the approved schedule. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]
4	PM-2.5 (Total) \leq 0.2 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U11 Rotary Rock Dryer, Conveyor #8B, Load Skirt and Conveyor #8A Source Skirt and Discharge Screw~~

Operating Scenario: ~~OS5 Belt conveyor #8A Load skirt E65 CD5 PT16~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.5 lb/hr. Maximum allowable emission rate based on 0.02 grains per sec. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	TSP \leq 0.2 lb/hr. Maximum emission rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-10 (Total) \leq 0.2 lb/hr. Maximum hourly emission rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]	PM-10 (Total): Recordkeeping by stack test results once initially. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]	Stack Test—Submit protocol, conduct test and submit results. As per the approved schedule. See stack test requirements in U11 OS Summary, firing No. 2 Fuel Oil. [N.J.A.C. 7:27-22.16(e)]
4	PM-2.5 (Total) \leq 0.2 lb/hr. Maximum emission rate from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U14 LP ~~Reserve~~ Bin #4 and Landplaster Bulk Loading

Subject Item: CD6 LP Bin #4 Dust Collector (LP Reserve Bin)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
2	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(e)]	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U14 LP ~~Reserve~~ Bin #4 and Landplaster Bulk Loading

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for TSP, PM10 and PM2.5 as specified in the compliance plan for OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: The stack test must be conducted either within 60 days of the protocol approval or within 180 days after initial startup of the modified source, whichever comes later. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved operating permit BOP190005. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>
2	<p>Particulate Emissions \leq 0.5 lb/hr based on 0.02 grains per SCF at 2400-1495 acfm and 190-27.4 deg. F. [N.J.A.C. 7:27-6.2(a)]</p>	None.	None.	None.
3	<p>Opacity \leq 20 % , exclusive of visible condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period including periods of startup and shutdown. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]</p>	None.	None.	None.

U14 LP Reserve Bin and Landplaster Bulk Loading

OS Summary

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	TSP <= 1.65 <u>0.25</u> tons/yr based on exhaust grain loading and flow rate from stack testing of E14 and E38 and AP-42, Section 13.2.4 and NCASI emissions data for source fugitive E38 the hourly emission rates of E14 and E38, includes source fugitive emissions, and annual operating hours (8760 hr/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-10 (Total) <= 1.56 <u>0.68</u> tons/yr based on exhaust grain loading and flow rate from stack testing of E14 and E38 and AP-42, Section 13.2.4 and NCASI emissions data for source fugitive E38 the hourly emission rates of E14 and E38, includes source fugitive emissions, and annual operating hours (8760 hr/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) <= 1.48 <u>0.56</u> tons/yr based on exhaust grain loading and flow rate from stack testing of E14 and E38 and AP-42, Section 13.2.4 and NCASI emissions data for source fugitive E38 the hourly emission rates of E14 and E38, includes source fugitive emissions, and annual operating hours (8760 hr/yr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
8	Total Material Transferred <= 65732 <u>32</u> ,000 tons/yr based on maximum hourly throughput and 8760 hr/year. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material balance each month during operation. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record monthly throughput and sum-to-date (tons/yr). [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U14 LP ~~Reserve~~ Bin #4 and Landplaster Bulk Loading

Operating Scenario: OS1 Landplaster ~~storage~~ Bin #4 - E14-CD6-PT17

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Material Transferred <= 150,000 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material balance each month during operation. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Recordkeeping by accounting mass balance on a monthly basis. Record throughput and hours of operation each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	TSP <= 0.335 0.06 lb/hr venting through CD6 baghouse from the combined emission rates for E14 and E38 based on 0. 02 004 gr/dscf at 2400 1495 acfm. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
3	PM-10 (Total) <= 0.335 0.15 lb/hr venting through CD6 baghouse from the combined emission rates for E14 and E38 based on 0. 02 004 gr/dscf at 2400 1495 acfm. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
4	PM-2.5 (Total) <= 0.335 0.13 lb/hr venting through CD6 baghouse from the combined emission rates for E14 and E38 based on 0. 02 004 gr/dscf at 2400 1495 acfm. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results upon occurrence of event. See stack test requirement in U14 OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U14 LP ~~Reserve~~ Bin #4 and Landplaster Bulk Loading

Operating Scenario: OS2 Bulk loading of landplaster - E38-CD6-PT17

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Material Transferred <= 150,000 lb/hr. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material balance each month during operation. The owner or operator shall monitor the scaled weight of trucks loaded and hours of operation of the bulk loading system. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record scale weight of trucks and hours of operation monthly. [N.J.A.C. 7:27-22.16(o)]	None.
2	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if during truck loading operation visible emissions are observed, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	TSP <= 0.375 <u>0.10</u> lb/hr (0.335 <u>0.06</u> lb/hr stack emission and 0.04 lb/hr fugitive emission). Stack emission from the combined emission rates for E14 and E38 based on 0.02 <u>0.04</u> grains/dscf and maximum air flow rate at 1,495 acfm. Fugitive emission is based on AP-42 and NCASI emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.355 <u>0.17</u> lb/hr (0.335 <u>0.15</u> lb/hr stack emission and 0.02 lb/hr fugitive emission). Stack emission from the combined emission rates for E14 and E38 based on 0.02 <u>0.04</u> grains/dscf and maximum air flow rate at 1,495 acfm. Fugitive emission is based on AP-42 and NCASI emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	PM-2.5 (Total) <= 0.339 <u>0.13</u> lb/hr (0.335 <u>0.13</u> lb/hr stack emission and 0.004 <u><0.01</u> lb/hr fugitive emission). Stack emission from the combined emission rates for E14 and E38 based on 0.02 <u>0.04</u> grains/dscf and maximum air flow rate at 1,495 acfm. Fugitive emission is based on AP-42 and NCASI emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U15 Stucco Supply Elevator, Stucco Recirc. Elevator, Dry Additive Elevator, Scalping Screw, Weigh Belt Feeder~~

Operating Scenario: ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: There shall be no visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive thirty minute period. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	TSP ≤ 4.38 tons/yr based on hourly emissions from OS1 and OS2 at 8760 hours/year. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-10 (Total) ≤ 4.38 tons/yr based on hourly emissions from OS1 and OS2 at 8760 hours/year. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-2.5 (Total) ≤ 4.38 tons/yr based on hourly emissions from OS1 and OS2 at 8760 hours/year, from BOP140001. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	All particulate emissions from this emission unit, which comprised of E15, E16, E59, E66, and E67 shall be exhausted through its respective baghouse, which in turn vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	The owner or operator shall inspect and maintain all baghouses on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
7	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U15 Stucco Supply Elevator, Stucco Recirc. Elevator, Dry Additive Elevator, Scalping Screw, Weigh Belt Feeder~~

Operating Scenario: ~~OS1 Stucco supply elevator E15-CD7-VENT INDOOR~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP \leq 0.5 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) \leq 0.5 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-2.5 (Total) \leq 0.5 lb/hr from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 10 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(e)]	None.
5	Total Material Transferred \leq 100,000 lb/hr based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
6	Total Material Transferred \leq 438,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U15 Stucco Supply Elevator, Stucco Recirc. Elevator, Dry Additive Elevator, Scalping Screw, Weigh Belt Feeder~~

Operating Scenario: ~~OS2 Stucco recirculating elevator E16 CD33 VENT INDOOR~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP \leq 0.5 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) \leq 0.5 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-2.5 (Total) \leq 0.5 lb/hr from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 10 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(e)]	None.
5	Total Material Transferred \leq 100,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
6	Total Material Transferred \leq 438,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: ~~U15 Stucco Supply Elevator, Stucco Recirc. Elevator, Dry Additive Elevator, Scalping Screw, Weigh Belt Feeder~~

Operating Scenario: ~~OS3 Stucco Scalping Screw E66 CD32 VENT INDOOR~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 10 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Material Transferred \leq 100,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
4	Total Material Transferred \leq 438,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U15 Stucco Supply Elevator, Stucco Recirc. Elevator, Dry Additive Elevator, Scalping Screw, Weigh Belt Feeder~~

Operating Scenario: ~~OS4 Dry Additives Elevator—E59-CD34-VENT INDOOR~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 14 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(e)]	None.
3	Total Material Transferred \leq 10,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
4	Total Material Transferred \leq 43,800 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: ~~U15 Stucco Supply Elevator, Stucco Recirc. Elevator, Dry Additive Elevator, Scalping Screw, Weigh Belt Feeder~~

Operating Scenario: ~~OS5 Stucco Weigh Belt Feeder—E67-CD32-VENT INDOOR~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 10 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(e)]	None.
3	Total Material Transferred \leq 100,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
4	Total Material Transferred \leq 438,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

~~Emission Unit: U17 Landplaster Pneumatic Conveying Process~~~~Operating Scenario: OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on general permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD8), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred \leq 10,000 lb/hr. Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
8	Total Material Transferred \leq 4,380 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U18 Stucco Mixing Screw Conveyor~~**Operating Scenario:** ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD9), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred \leq 100,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
8	Total Material Transferred \leq 438,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: ~~U19 Board Stucco Silo #1~~**Operating Scenario:** ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD10), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
4	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred \leq 120,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred \leq 525,600 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(e)].	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: ~~U20 Board Stucco Silo #2~~**Operating Scenario:** ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD11), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
4	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred \leq 120,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred \leq 525,600 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(e)].	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: ~~U21 441 Screw Conveyor~~**Operating Scenario:** ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD12), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
4	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred \leq 120,000 lb/hr. Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred \leq 525,600 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(e)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U22 Stucco Reserve Bin #1

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD13), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
4	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred $\leq 120,000$ lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred <= 525,600 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

~~Emission Unit: U23 Pin Mixer~~~~Operating Scenario: OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP \leq 0.82 tons/yr based on preconstruction permit limit of 0.2 lb/hr and 8160 hours/year of operation. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) \leq 0.82 tons/yr based on lb/hr and operating hour limits. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-2.5 (Total) \leq 0.82 tons/yr based on lb/hr and operating hour limits, from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP \leq 0.2 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) \leq 0.2 lb/hr based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-2.5 (Total) \leq 0.2 lb/hr from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD14), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(e)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency, based on no averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
10	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
11	Total Material Transferred \leq 100,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
12	Total Material Transferred \leq 438,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements

Emission Unit: U24 Raymond Mill #1 and Raymond Mill #2

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1. 35 ⁴⁶ lb/hr for PT26 and 1. 35 ⁴⁶ lb/hr for PT27. Maximum allowable emission rate based on 0.02 grains per scf for each stack (PT26 and PT27). [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % for PT26 and for PT27, exclusive of visible condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period including periods of startup and shutdown. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent by volume of the VOC from each source operation. This applies to each operating scenario, U24 OS1 and U24 OS2, U24 OS3 and U24 OS4 . [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. The maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used for each process. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under operating conditions. The records shall be maintained for a period of no less than five years and make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.16(g)1] and.[N.J.A.C. 7:27-16.22(a)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of visible condensed water vapor, from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 1.07 0.77 tons/yr combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25) based on <u>vendor emission factor of 0.0212 lb/MMBtu and combined natural gas firing rate of 72,855 MMBtu/yr</u> maximum hourly emission rate and maximum 13,421 hr/yr operation firing No. 2 Fuel Oil, from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	NOx (Total) <= 3.83 2.20 tons/yr <u>combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25) based on vendor emission factor of 0.0605 lb/MMBtu and combined natural gas firing rate of 72,855 MMBtu/yr</u> based on maximum hourly emission rate and maximum 13,421 hr/yr operation firing No. 2 Fuel Oil, from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	CO <= 7.78 5.39 tons/yr combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25) based <u>on vendor emission factor of 0.148 lb/MMBtu and combined natural gas firing rate of 72,855 MMBtu/yr</u> on maximum hourly emission rate and maximum 13,421 hr/yr operation firing No. 2 Fuel Oil, from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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8	TSP <= 2.55 <u>1.60</u> tons/yr combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25), based on preconstruction permit <u>vendor information, AP-42, and 8,760 hr/yr operation</u> . [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by calculations each month during operation. The TSP annual emission limit shall be calculated as follows: TSP in tpy = [(0.38 lb/hr)*(hours burning fuel oil)] + (0.35 <u>18</u> lb/hr)*(hours burning natural gas)] / (2000 lb/ton). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation in a logbook or readily accessible computer memory, showing sum-to-date (tons/yr). [N.J.A.C. 7:27-22.16(o)]	None.
9	PM-10 (Total) <= 2.55 <u>2.77</u> tons/yr combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25), based on preconstruction permit <u>vendor information, AP-42, stack test data, and 8,760 hr/yr operation</u> . [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PM-2.5 (Total) <= 2,552.77 tons/yr combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25), vendor information, AP-42, stack test data, and 8,760 hr/yr operation from BOP140001 . [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 5 MMBTU/hr (HHV) for each Raymond Mill (E24 and E25), based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	Fuel limited to natural gas and ultra low distillate oil, from BOP140001 . [N.J.A.C. 7:27-22.16(a)]	Monitored by review of fuel delivery records per delivery or monthly invoice / billing record for natural gas. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain fuel delivery records per delivery or monthly invoice / billing records of natural gas.[N.J.A.C. 7:27-22.16(o)].	None.
13	Total Hours of Operation <= 14,571 hr/yr combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25), based on firing natural gas only from operating permit BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	Total Hours of Operation: Monitored by hour/time monitor once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	Total Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation , in a log book or readily accessible computer memory, with sum-to-date. [N.J.A.C. 7:27-22.16(o)]	None.
14	Hours of Operation <= 8,448,760 hr/yr for each Raymond Mill Baghouse , #1 (E24 CD16) and #2 (E25 CD18) based on operating permit BOP070001 application . [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation , in a log book or readily accessible computer memory, with sum-to-date. [N.J.A.C. 7:27-22.16(o)]	None.
15	Natural Gas Usage <= 64,372,855 MMBtu/yr MMcf/yr . Maximum annual natural gas consumption combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25), based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system annually , in a log book or in readily accessible computer memories, showing cubic feet per year. [N.J.A.C. 7:27-22.16(o)]	None.
16	No. 2 Fuel Oil Usage <= 479,323 gal/yr. Maximum annual #2 fuel oil consumption combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25), based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system annually , in a log book or in readily accessible computer memories, showing gallons per year of #2 oil consumed. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17 16	Pressure Drop Across the Baghouse >= 1 and Pressure Drop Across the Baghouse <= 8 inches w.c. for each Baghouse (CD16 and CD18). [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
18 17	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by review of material delivery records.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
19 18	Total Material Transferred <= 54,000 lb/hr for each Raymond Mill (E24 and E25), based on Operating Permit Minor Modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material balance each month during operation for Raymond Mill #1 (E24) and Raymond Mill #2 (E25). [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Recordkeeping by accounting mass balance on a monthly basis. Record hourly throughput based on hours of operation for each Raymond Mill (E24 and E25) per day and material balance each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
20 19	Total Material Transferred <= 362,368 tons/yr , based on maximum lb/hr combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25). [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material balance each month during operation for Raymond Mill #1 (E24) and Raymond Mill #2 (E25). [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Recordkeeping by accounting mass balance on a monthly basis. Record monthly throughput (tons/month) and sum-to-date (tons/yr), combined for Raymond Mill #1 (E24) and Raymond Mill #2 (E25). [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U24 Raymond Mill #1 and Raymond Mill #2

Operating Scenario: OS1 60" Raymond Mill #1 - NG Fuel - E24-CD16-PT26

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.11 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.3 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.78 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP <= 0.3518 lb/hr based on preconstruction permit (total - process and combustion emissions). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 0.35 lb/hr based on preconstruction permit (total - process and combustion emissions). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.35 lb/hr from BOP140001 (total - process and combustion emissions). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Submit a notification about the existing facility being replaced and the replacement piece of equipment: the rated capacity in megagrams or tons per hour of the existing facility being replaced and the rated capacity in tons per hour of the replacement equipment. [40 CFR 60.676(a)]	None.	None.	Submit notification.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

~~Emission Unit: U24 Raymond Mill #1 and Raymond Mill #2~~~~Operating Scenario: OS2 60" Raymond Mill #1 #2 Distillate oil E24 CD16 PT26~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel \leq 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(e)]	None.
2	Sulfur Content in Fuel \leq 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(e)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(e)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)]	None.	None.	None.
4	VOC (Total) \leq 0.16 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) \leq 0.57 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO \leq 1.16 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP \leq 0.38 lb/hr based on preconstruction permit (total process and combustion emissions). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) \leq 0.38 lb/hr based on preconstruction permit (total process and combustion emissions). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	PM-2.5 (Total) \leq 0.38 lb/hr from BOP140001 (total process and combustion emissions). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Maximum emission rate of SO₂ is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U24 Raymond Mill #1 and Raymond Mill #2

Operating Scenario: OS~~32~~-60" Raymond Mill #2 - NG Fuel - E25-CD18-PT27

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.11 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.3 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.78 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP <= 0. 35 ¹⁸ lb/hr based on preconstruction permit (total - process and combustion emissions). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) <= 0.35 lb/hr based on preconstruction permit (total - process and combustion emissions). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-2.5 (Total) <= 0.35 lb/hr from BOP140001 (total - process and combustion emissions). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

~~Emission Unit: U24 Raymond Mill #1 and Raymond Mill #2~~~~Operating Scenario: OS4 60" Raymond Mill #2 - #2 Distillate oil - E25 CD18 PT27~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel \leq 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel \leq 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27-9.2(b)]	None.	None.	None.
4	VOC (Total) \leq 0.16 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) \leq 0.57 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	CO \leq 1.16 lb/hr based on burner manufacturer test data from operating permit minor modification BOP070001 application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP \leq 0.38 lb/hr based on preconstruction permit (total process and combustion emissions). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) \leq 0.38 lb/hr based on preconstruction permit (total process and combustion emissions). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	PM-2.5 (Total) \leq 0.38 lb/hr from BOP140001 (total process and combustion emissions). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	Maximum emission rate of SO₂ is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U26 Portland Cement Bin (~~aka Reserve Bin #4~~)

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD19), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	TSP <= 0.4 71 tons/yr based on preconstruction permit limit of 0.1 lb/hr <u>on emission limit of 0.02 gr/dscf and 8000-8760</u> hours/year of operation. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	PM-10 (Total) <= 0.4 71 tons/yr based on <u>emission limit of 0.02 gr/dscf and 8760 hours/year of operation</u> b/hr and operating hour limits . [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-2.5 (Total) <= 0.4 37 tons/yr based on <u>emission limit of 0.01 gr/dscf and 8760 hours/year of operation</u> b/hr and operating hour limits, from BOP140001 . [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	TSP <= 0.1 8 lb/hr based on preconstruction permit . [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-10 (Total) <= 0.1 8 lb/hr based on preconstruction permit . [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-2.5 (Total) <= 0.4 09 lb/hr from BOP140001 . [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
10	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
11	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
12	Total Material Transferred $\leq 200,000$ lb/batch based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
13	Total Material Transferred $\leq 2926,000$ tons/yr based on 3-hours/batch per preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity Monitored by Bills of Lading or production records showing the amount of material in tons. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)]. Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer system each month during operation. Record the following information and maintain production records: 1. The amount of material transferred (tons) each month of operation. 2. The total material transferred (tons) year to date. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

14	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
16	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.
17	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
18	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	None.
20	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
22	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.
23	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]	None.	None.	None.
26	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
28	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
30	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
31	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
32	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
33	Opacity <= 10-7 % (<u>affected facility enclosed in a building not equipped with vents</u> fugitive-all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(eb)(<u>1</u>)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	<p>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]</p>	None.	None.	None.
35	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]</p>	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U27 Landplaster Bin #1

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD20), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
4	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred $\leq 40,000$ lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred <= 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U28 Landplaster Bin #2

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD21), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
4	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred $\leq 40,000$ lb/hr Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred <= 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U29 Landplaster Bin #3

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD22), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
4	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred $\leq 40,000$ lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred <= 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U30 Moulding Plaster Bin / ~~Stucco Reserve Bin #3~~ / Molding Plaster Bin Elevator

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD23), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
4	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U30 Moulding Plaster Bin / ~~Stucco Reserve Bin #3~~

Operating Scenario: OS1 Moulding Plaster Bin #3 (~~aka Stucco Reserve Bin #3~~)-- E30-CD23-PT32(venting indoors), OS2 Moulding Plaster Bin Elevator - E61-CD23-PT32(venting indoors)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Material Transferred <= 40,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
2	Total Material Transferred <= 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U31 Stucco Cooling

Subject Item: CD24 Stucco Cooling Dust Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
2	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
3	Baghouse Control Efficiency $\geq 99\%$. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U31 Stucco Cooling

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 60 Subpart OOO [None]	None.	None.	None.
2	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for Particulate Matter, TSP, PM10, and PM2.5 as specified in the compliance plan for OS Summary.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	Other: The stack test must be conducted either within 60 days of the protocol approval or within 180 days after initial startup of the modified source, whichever comes later. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved operating permit BOP190005. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>
3	Particulate Emissions \leq 1.51 <u>0.90</u> lb/hr based on 0.02 grains per scf at 11,000 <u>5,551</u> acfm and 190 <u>98</u> degrees F. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
5	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30-minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30-consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
6	TSP <= 1.58 <u>0.83</u> tons/yr for the combined operation of U31 Stucco Cooling equipment based on hourly emission rates and 8760 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	PM-10 (Total) <= 1.18 1.72 tons/yr for the combined operation of U31 Stucco Cooling equipment based on hourly emission rates and 8760 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 1.18 1.72 tons/yr for the combined operation of U31 Stucco Cooling equipment based on hourly emission rates and 8760 hours of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Particulate Emissions <= 0. 014 0.22 gr/dscf from Table 2 of NSPS Subpart OOO. [40 CFR 60.672(a)]	Particulate Emissions: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
10	TSP <= 0.36 0.19 lb/hr. The maximum hourly emission rate for the combined operation of U31 equipment. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See the stack testing requirements in OS Summary Ref. #2. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
11	PM-10 (Total) <= 0.27 0.39 lb/hr The maximum hourly emission rate for the combined operation of U31 equipment. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. See the stack testing requirements in OS Summary Ref. #2. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements in OS Summary Ref. #2. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
12	PM-2.5 (Total) <= 0.27 0.39 lb/hr The maximum hourly emission rate for the combined operation of U31 equipment. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
13	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Total Material Transferred <= 525,600 tons/yr based on maximum hourly material transfer rate and operating hours per year <u>for OS1-OS7 and OS11 and <= 60,000 tons/yr based on maximum estimated throughput.</u> [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by Bills of Lading or production records showing the amount of materials in tons delivered per delivery. [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery <u>each month during operation.</u> Record the following information and retain <u>maintain the production</u> records of invoices, bills of lading, and/or MSDS sheets for raw materials received: 1. The date and the amount of materials <u>throughput delivered</u> (tons) <u>each month of operation.</u> 2. The total throughput (tons) <u>year to date during each consecutive 12 month period.</u> [N.J.A.C. 7:27-22.16(o)]	None.
15	The 40 CFR 60 Subpart OOO applicable requirements applies <u>to U31 OS1, OS4, OS8, OS9 and OS10.</u> See GR1 for NSPS Subpart A for General Provision requirements. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Opacity <= 7 % (Stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]	Opacity: Monitored by visual determination once initially. Method 9 of appendix A-4 of this part and the procedures in 40 CFR 60.11 shall be used to determine opacity. [40 CFR 60.675(b)(2)] In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions: (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). (ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. [40 CFR 60.675(c)(1)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of Method 9 opacity observation; (2) Emission unit and operating scenario number(s); (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Within 60 days of stack testing. The permittee shall report to the Administrator the opacity results along with the results of the initial performance test required under §60.8. [40 CFR 60.11(e)(2)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Opacity <= 7 % (fugitive emissions).- Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart 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 as required under §60.11. The requirements in Table 3 of this subpart apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems. [40 CFR 60.672(b)]	Other: Performance tests to determine compliance with the fugitive emission limits shall be conducted once initially and every 5 years thereafter. An initial performance test according to §60.11 of this part and §60.675 of this subpart; and a repeat performance test according to §60.11 of this part and §60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. [40 CFR 60.675(d)(1)].	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of Method 9 opacity observation; (2) Emission unit and operating scenario number(s); (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Within 60 days of stack testing. The permittee shall report to the Administrator the opacity results along with the results of the initial performance test required under §60.8. [40 CFR 60.11(e)(2)]
18 <u>17</u>	When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(c)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]	None.	None.	None.
19 <u>18</u>	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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Emission Unit: U31 Stucco Cooling

Operating Scenario: OS1 Stucco Cooler - #1 Elevator Discharge Screw, ~~OS2 Stucco Cooler - #1 Collecting Screw, OS3 Stucco Cooler - #1 Cross Screw, OS4 Stucco Cooler - #2 Elevator Discharge Screw, OS5 Stucco Cooler - #2 Collecting Screw, OS6 Stucco Cooler - #2 Cross Screw, OS7 Stucco Cooler - #430 Conveyor Screw~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP, PM10 and PM2.5 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Material Transferred <= 120,000 lb/hr. Maximum hourly throughput rate. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
3	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.
4	Particulate Emissions <= 0.022 gr/dscf (baghouse stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]	None.	None.	None.
5	Opacity <= 7 % (Stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]	None.	None.	None.
6	In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions: (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). (ii) 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 of Appendix	None.	None.	None.

U31 Stucco Cooling

OS1, ~~OS2, OS3, OS4, OS5, OS6, OS7~~

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	<p><u>A-4 of this part, Section 2.1) must be followed.</u></p> <p><u>For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO). [40 CFR 60.675(c)(1)]</u></p>			
<u>7</u>	<p><u>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(c)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO). [40 CFR 60.675(c)(3)]</u></p>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>8</u>	<p><u>For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO). [40 CFR 60.675(g)]</u></p>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements**

Emission Unit: U31 Stucco Cooling

Operating Scenario: OS2 Stucco Cooler - #1 Collecting Screw, OS3 Stucco Cooler - #1 Cross Screw, OS5 Stucco Cooler - #2 Collecting Screw, OS6 Stucco Cooler - #2 Cross Screw, OS7 Stucco Cooler - #430 Conveyor Screw

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>1</u>	<u>Maximum emission rate of TSP, PM10 and PM2.5 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>2</u>	<u>Total Material Transferred <= 120,000 lb/hr. Maximum hourly throughput rate. [N.J.A.C. 7:27-22.16(a)]</u>	<u>Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>None.</u>

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U31 Stucco Cooling

Operating Scenario: OS8 Bulk Stucco Loading Spout

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0. 14 <u>03</u> lb/hr based on 0.02 gr/dscf from NJAC 7:27-6.2(a) test data and booster fan air flow rate of 815 <u>950</u> dscfm. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0. 14 <u>07</u> lb/hr based on 0.02 gr/dscf from NJAC 7:27-6.2(a) test data and booster fan air flow rate of 815 <u>950</u> dscfm. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-2.5 (Total) <= 0. 14 <u>07</u> lb/hr based on 0.02 gr/dscf from NJAC 7:27-6.2(a) test data and booster fan air flow rate of 815 <u>950</u> dscfm. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Material Transferred <= 100,000 lb/hr. Maximum hourly throughput rate. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by Bills of Lading or production records showing the amount of materials delivered per delivery . [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery <u>each month during operation</u> . Record the following information and maintain <u>retain the production</u> records of invoices, bills of lading, and/or MSDS sheets for raw materials received: 1. The date and the amount of materials throughput delivered (tons). 2. The total throughput (tons) year to date during each consecutive 12 month period <u>year to date</u> . [N.J.A.C. 7:27-22.16(o)]	None.

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5	Total Material Transferred <= 438 60,000 tons/yr based on maximum hourly material transfer rate and operating hours. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by Bills of Lading or production records showing the amount of materials in tons delivered per delivery. [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery <u>each month during operation</u> . Record the following information and <u>maintain production records</u> retain the bills of lading: 1. The date and the amount of material loaded (tons) on each truck loading <u>each month of operation</u> . 2. The total material transferred (tons) during each consecutive 12 month period <u>year to date</u> . [N.J.A.C. 7:27-22.16(o)]	None.
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The NSPS Subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. [40 CFR 60.676(h)]	None.	None.	None.
7	Particulate Emissions ≤ 0.014 0.022 gr/dscf (baghouse stack) from the requirements in Table 2 of NSPS Subpart OOO. [40 CFR 60.672(a)]	None.	None.	None.
8	Opacity $\leq 7\%$ (Stack). The owner or operator shall demonstrate compliance with the opacity standards as specified in Table 2 of 40 CFR Part 60 NSPS Subpart OOO. [40 CFR 60.672(a)]	None.	None.	None.
9	In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions: (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). (ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. (iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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.(NSPS Subpart OOO). [40 CFR 60.675(c)(1)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO). [40 CFR 60.675(c)(3)]	None.	None.	None.
11	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO). [40 CFR 60.675(g)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U31 Stucco Cooling

Operating Scenario: OS9 Bulk Stucco Handling Elevator

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP, PM10 and PM2.5 is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Material Transferred <= 100,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	Total Material Transferred <= 438 60,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)]. <u>Other: Monitored by Bills of Lading or production records showing the amount of materials in tons.[N.J.A.C. 7:27-22.16(o)].</u>	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)]. <u>Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the following information and retain production records:</u> <u>1. The amount of material loaded (tons) each month of operation.</u> <u>2. The total material transferred (tons) year to date. [N.J.A.C. 7:27-22.16(o)]</u>	None.
4	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.
5	Particulate Emissions <= 0.022 gr/dscf (baghouse stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]	None.	None.	None.
6	Opacity <= 7 % (Stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO). [40 CFR 60.675(c)(1)]</p>	None.	None.	None.
8	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO). [40 CFR 60.675(c)(3)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO). [40 CFR 60.675(g)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U31 Stucco Cooling

Operating Scenario: OS10 Bulk Stucco Handling Sifter

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.11 lb/hr based on AP-42 emission factor. Maximum emission rate of TSP , PM10 and PM2.5 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Material Transferred <= 100,000 lb/hr. Maximum throughput rate based on equipment rated capacity. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
3	Total Material Transferred <= 43860 60,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)]. Other: Monitored by Bills of Lading or production records showing the amount of materials in tons. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)]. Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the following information and maintain production records: 1. The date and the amount of material throughput (tons) each month of operation. 2. The total material transferred (tons) year to date. [N.J.A.C. 7:27-22.16(o)]	None.
4	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.
5	Particulate Emissions <= 0.014 0.022 gr/dscf (baghouse stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]	None.	None.	None.
6	Opacity <= 7 % (Stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO). [40 CFR 60.675(c)(1)]</p>	None.	None.	None.
8	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO). [40 CFR 60.675(c)(3)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO). [40 CFR 60.675(g)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U31 Stucco Cooling
Operating Scenario: OS11 Barrel Separator

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.22 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.13 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-2.5 (Total) <= 0.13 lb/hr based on AP-42 emission factor. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Material Transferred <= 120,000 lb/hr. Maximum throughput rate. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
5	Total Material Transferred <= 525,600 tons/yr based on maximum lb/hr from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Emission Unit: U34 Reclaim Feeder and Belt Conveyor

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period including periods of startup and shutdown. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3	Raw materials limited to gypsum rock, impurities, recycled gypsum products and other ingredients necessary for the production of gypsum products based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
4	Total Material Transferred <= 438,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U34 Reclaim Feeder and Belt Conveyor

Operating Scenario: OS1 Reclaim Feeder and Belt Conveyor- Feeder for shredding wallboard - E40-PT34

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per sec at less than 3,000 acfm and 100 degrees F <u>Potential emission rate from source operation of 50 lb/hr or less.</u> [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	<u>TSP <= 0.27 lb/hr based on AP-42 emission factor.</u> [N.J.A.C. 7:27- 22.16(a)] Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Total Material Transferred <= 100,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
<u>4</u>	<u>All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]</u>	<u>None.</u>	<u>None.</u>	<u>Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]</u>
<u>5</u>	<u>Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]</u>	<u>None.</u>	<u>None.</u>	<u>Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]</u>
<u>6</u>	<u>The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
7	<u>Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]</u>	<u>None.</u>	<u>None.</u>	<u>Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]</u>
8	<u>Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]</u>	<u>None.</u>	<u>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]</u>	<u>None.</u>
9	<u>Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>10</u>	<u>If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>11</u>	<u>The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>12</u>	<u>The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>13</u>	<u>Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>14</u>	<u>Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>15</u>	<u>Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>16</u>	<u>The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>17</u>	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>18</u>	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>19</u>	<u>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. (NSPS Subpart A) [40 CFR 60.11(d)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>20</u>	<u>No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>21</u>	<u>The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]</u>	<u>None.</u>	<u>None.</u>	<u>Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]</u>
<u>22</u>	<u>Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
23	<u>Opacity <= 10 % (fugitive- all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(b)]</u>	<u>Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following:</u> <u>(1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19.</u> <u>(2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation (in a logbook or other electronic data management system) and retain the following records:</u> <u>(1) Date and time of inspection;</u> <u>(2) Emission unit and operating scenario number(s);</u> <u>(3) Operational status of the equipment;</u> <u>(4) Observed results and conclusions;</u> <u>(5) Description of corrective action taken if needed;</u> <u>(6) Date and time opacity problem was solved, if applicable;</u> <u>(7) N.J.A.C. 7:27B-2 results if conducted;</u> <u>and</u> <u>(8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
24	In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions: (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). (ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. (iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]	<u>None.</u>	<u>None.</u>	<u>None.</u>
25	When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>26</u>	<u>For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U34 Reclaim Feeder and Belt Conveyor

Operating Scenario: OS2 Reclaim Belt Conveyor

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on potential emission rate from source operation of 50 lb/hr or less 0.02 grains per sec at less than 3,000 acfm and 100 degrees F. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16©]	None.	None.	None.
3	Total Material Transferred <= 100,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
4	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
5	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
6	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14©. This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
8	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.
9	Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.
11	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
12	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.
14	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8©]	None.	None.	None.
16	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
18	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
20	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
21	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
22	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Opacity <= 10 % (fugitive- all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(b)]	<p>Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19.</p> <p>(2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation (in a logbook or other electronic data management system) and retain the following records:</p> <p>(1) Date and time of inspection; (2) Emission unit and operating scenario number(s); (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 eters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]</p>	None.	None.	None.
25	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U35 ~~Dens-Cal~~ Alpha Feed Bin

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per SCF at 950 acfm and 27.4 deg. F. [N.J.A.C. 7:27-6.2(a)] [N.J.A.C. 7:27-22.16(a)] [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD25), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse >= 1 and Pressure Drop Across the Baghouse <= 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter upon occurrence of event. Record each inspection and maintenance event in a permanently bound logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.

U35 ~~Dens-Cal~~ Alpha Feed Bin

OS Summary

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New Jersey Department of Environmental Protection
Facility Specific Requirements

6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred <= 50,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
8	Total Material Transferred <= 219,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
9	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
10	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
11	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
13	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.
14	Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.
16	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
17	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.
19	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]	None.	None.	None.
21	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
23	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
25	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
26	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
27	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
28	Opacity \leq 10-7 % (<u>affected facility enclosed in a building not equipped with vent</u> fugitive all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(eb)(<u>1</u>)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	<p>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]</p>	None.	None.	None.
30	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U36 ~~Blender/Packer System~~ Underlayment/Rock Bins and Transfers

Subject Item: CD26 Blender and Packer Dust Collector

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop Across the Baghouse ≥ 1 and Pressure Drop Across the Baghouse ≤ 8 inches w.c.. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
2	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
3	Baghouse Control Efficiency $\geq 99\%$. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

U36 Underlayment/Rock Bins and Transfers ~~Blender/Packer System~~

CD26

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U36 ~~Blender/Packer System~~ Underlayment/Rock Bins and Transfers

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 60 Subpart OOO [None]	None.	None.	None.
2	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for Particulate Matter as specified in the compliance plan for OS Summary.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	Other: The stack test must be conducted either within 60 days of the protocol approval or within 180 days after initial startup of the modified source, whichever comes later. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved operating permit BOP190005. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>
3	Particulate Emissions $\leq 0.77-0.60$ lb/hr based on 0.02 grains per scf at 5,000 <u>3,239</u> acfm and 110-27.4 degrees F. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Opacity <= 20 % , exclusive of visible condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period including periods of startup and shutdown. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
5	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	TSP <= 2.47 1.85 tons/yr based on maximum hourly emission rate and 8760 hr/yr of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 2.47 1.85 tons/yr based on maximum hourly emission rate and 8760 hr/yr of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Particulate Emissions <= 0.014 gr/dscf from Table 2 of NSPS Subpart OOO. [40 CFR 60.672(a)]	Particulate Emissions: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test—Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
9 8	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
10 9	Opacity <= 20 % , exclusive of condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27- 6.2(e)]	Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter upon occurrence of event on a permanently bound log book or readily available computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
11	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Opacity \leq 7 % (Stack). (NPS Subpart 000). [40 CFR 60.672(a)]	Opacity: Monitored by visual determination once initially. Method 9 of appendix A-4 of this part and the procedures in 40 CFR 60.11 shall be used to determine opacity. [40 CFR 60.675(b)(2)] In determining compliance with the particulate matter standards in 40CFR-60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions: (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet); (ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. [40 CFR 60.675(e)(1)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of Method 9 opacity observation; (2) Emission unit and operating scenario number(s); (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Within 60 days of stack testing. The permittee shall report to the Administrator the opacity results along with the results of the initial performance test required under §60.8. [40 CFR 60.11(e)(2)]
13	Opacity \leq 7 % (fugitive emissions).- Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart 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 as required under §60.11. The requirements in Table 3 of this subpart apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems. [40 CFR 60.672(b)]	Other: Performance tests to determine compliance with the fugitive emission limits shall be conducted once initially and every 5 years thereafter. An initial performance test according to §60.11 of this part and §60.675 of this subpart; and a repeat performance test according to §60.11 of this part and §60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. [40 CFR 60.675(d)(1)].	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of Method 9 opacity observation; (2) Emission unit and operating scenario number(s); (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Within 60 days of stack testing. The permittee shall report to the Administrator the opacity results along with the results of the initial performance test required under §60.8. [40 CFR 60.11(e)(2)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6 minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6 minute averages. (NSPS Subpart OOO) [40 CFR 60.675(e)(3)]	None.	None.	None.
15	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30 day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7 day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U36 Underlayment/Rock Bins and Transfers~~Blender/Packer System~~

Operating Scenario: OS1 Bag Packer - E43-CD26-PT36

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Material Transferred <= 20,000 lb/hr. Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	Total Material Transferred <= 87,600 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
<u>4</u>	<u>Particulate Emissions <= 0.022 gr/dscf from Table 2 of NSPS Subpart OOO. [40 CFR 60.672(a)]</u>	<u>Particulate Emissions: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]</u>
<u>5</u>	<u>The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>6</u>	<u>Opacity <= 7 % (Stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]</u>	<u>Opacity: Monitored by visual determination once initially. Method 9 of appendix A-4 of this part and the procedures in 40 CFR 60.11 shall be used to determine opacity. [40 CFR 60.675(b)(2)]</u> <u>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</u> <u>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</u> <u>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. [40 CFR 60.675(c)(1)]</u>	<u>Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (in a logbook or other electronic data management system) and retain the following records:</u> <u>(1) Date and time of Method 9 opacity observation;</u> <u>(2) Emission unit and operating scenario number(s);</u> <u>(3) Operational status of the equipment;</u> <u>(4) Observed results and conclusions;</u> <u>(5) Description of corrective action taken if needed;</u> <u>(6) Date and time opacity problem was solved, if applicable;</u> <u>(7) N.J.A.C. 7:27B-2 results if conducted; and</u> <u>(8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Submit a report: Within 60 days of stack testing. The permittee shall report to the Administrator the opacity results along with the results of the initial performance test required under §60.8. [40 CFR 60.11(e)(2)]</u>
<u>7</u>	<u>For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U36 Underlayment/Rock Bins and Transfers~~Blender/Packer System~~

Operating Scenario: OS2 Bulk Plaster Blender and Weigher - E44-CD26-PT36

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP, PM10 & PM2.5 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Material Transferred <= 60,000 lb/hr. Maximum throughput rate based on equipment capacity. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift during operation. Record the following information and maintain all production records: 1. Date and amount of bagged plaster products. [N.J.A.C. 7:27-22.16(o)]	None.
3	Total Material Transferred <= 262,800 <u>100,000</u> tons/yr based on maximum hourly process fill rate and 8760 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records or bills of lading which shows the amount of finished products for delivery. [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the following information and maintain all production records: 1. Date and <u>The</u> amount of bagged plaster products (tons). 2. Total amount of bagged products (tons) year to date. [N.J.A.C. 7:27-22.16(o)]	None.
<u>4</u>	<u>Particulate Emissions <= 0.022 gr/dscf from Table 2 of NSPS Subpart OOO. [40 CFR 60.672(a)]</u>	<u>Particulate Emissions: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]</u>
<u>5</u>	<u>The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>6</u>	<u>Opacity <= 7 % (Stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]</u>	<u>Opacity: Monitored by visual determination once initially. Method 9 of appendix A-4 of this part and the procedures in 40 CFR 60.11 shall be used to determine opacity. [40 CFR 60.675(b)(2)]</u> <u>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</u> <u>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</u> <u>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. [40 CFR 60.675(c)(1)]</u>	<u>Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (in a logbook or other electronic data management system) and retain the following records:</u> <u>(1) Date and time of Method 9 opacity observation;</u> <u>(2) Emission unit and operating scenario number(s);</u> <u>(3) Operational status of the equipment;</u> <u>(4) Observed results and conclusions;</u> <u>(5) Description of corrective action taken if needed;</u> <u>(6) Date and time opacity problem was solved, if applicable;</u> <u>(7) N.J.A.C. 7:27B-2 results if conducted; and</u> <u>(8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Submit a report: Within 60 days of stack testing. The permittee shall report to the Administrator the opacity results along with the results of the initial performance test required under §60.8. [40 CFR 60.11(e)(2)]</u>
<u>7</u>	<u>For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U36 Underlayment/Rock Bins and Transfer~~Blender/Packer System~~

Operating Scenario: OS3 #1 Rock Bin Transfer - 11 Belt - E45-CD26-PT36

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Material Transferred <= 280,000 lb/hr. Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	Total Material Transferred: <=1,226,400 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements

Emission Unit: U36 Underlayment/Rock Bins and Transfer~~Blender/Packer System~~

Operating Scenario: OS4 #2 Rock Bin Transfer - 11 Belt - E46-CD26-PT36

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Material Transferred <= 280,000 lb/hr. Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	Total Material Transferred: <=1,226,400 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Emission Unit: U36 Underlayment/Rock Bins and Transfer~~Blender/Packer System~~

Operating Scenario: OS5 Rock Transfer - 10 Belt to 11 Belt - E47-CD26-PT36

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Material Transferred <= 280,000 lb/hr. Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	Total Material Transferred: <=1,226,400 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
<u>4</u>	<u>Particulate Emissions <= 0.022 gr/dscf from Table 2 of NSPS Subpart OOO. [40 CFR 60.672(a)]</u>	<u>Particulate Emissions: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]</u>
<u>5</u>	<u>The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>6</u>	<u>Opacity <= 7 % (Stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]</u>	<u>Opacity: Monitored by visual determination once initially. Method 9 of appendix A-4 of this part and the procedures in 40 CFR 60.11 shall be used to determine opacity. [40 CFR 60.675(b)(2)]</u> <u>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</u> <u>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</u> <u>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. [40 CFR 60.675(c)(1)]</u>	<u>Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (in a logbook or other electronic data management system) and retain the following records:</u> <u>(1) Date and time of Method 9 opacity observation;</u> <u>(2) Emission unit and operating scenario number(s);</u> <u>(3) Operational status of the equipment;</u> <u>(4) Observed results and conclusions;</u> <u>(5) Description of corrective action taken if needed;</u> <u>(6) Date and time opacity problem was solved, if applicable;</u> <u>(7) N.J.A.C. 7:27B-2 results if conducted; and</u> <u>(8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Submit a report: Within 60 days of stack testing. The permittee shall report to the Administrator the opacity results along with the results of the initial performance test required under §60.8. [40 CFR 60.11(e)(2)]</u>
<u>7</u>	<u>For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements

Emission Unit: U36 Underlayment/Rock Bins and Transfers~~Blender/Packer System~~

Operating Scenario: OS6 Bag Packer - E102-CD26-PT36

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Material Transferred <= 20,000 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	Total Material Transferred <= 87,600 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
<u>4</u>	<u>Particulate Emissions <= 0.022 gr/dscf from Table 2 of NSPS Subpart OOO. [40 CFR 60.672(a)]</u>	<u>Particulate Emissions: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]</u>
<u>5</u>	<u>The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>6</u>	<u>Opacity <= 7 % (Stack). (NSPS Subpart OOO). [40 CFR 60.672(a)]</u>	<u>Opacity: Monitored by visual determination once initially. Method 9 of appendix A-4 of this part and the procedures in 40 CFR 60.11 shall be used to determine opacity. [40 CFR 60.675(b)(2)]</u> <u>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</u> <u>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</u> <u>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. [40 CFR 60.675(c)(1)]</u>	<u>Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event (in a logbook or other electronic data management system) and retain the following records:</u> <u>(1) Date and time of Method 9 opacity observation;</u> <u>(2) Emission unit and operating scenario number(s);</u> <u>(3) Operational status of the equipment;</u> <u>(4) Observed results and conclusions;</u> <u>(5) Description of corrective action taken if needed;</u> <u>(6) Date and time opacity problem was solved, if applicable;</u> <u>(7) N.J.A.C. 7:27B-2 results if conducted; and</u> <u>(8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Submit a report: Within 60 days of stack testing. The permittee shall report to the Administrator the opacity results along with the results of the initial performance test required under §60.8. [40 CFR 60.11(e)(2)]</u>
<u>7</u>	<u>For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements

Emission Unit: U36 Underlayment/Rock Bins and Transfer~~Blender/Packer System~~

Operating Scenario: OS7 Supersac Loading

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall not operate operating scenario OS7 Supersac Loading (E103) and operating scenario OS1 Bag Packer (E43) and Bag Packer 2 (E102) simultaneously. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	TSP <= 0.49 <u>0.36</u> lb/hr based on NSPS Subpart OOO PM limit of 0.014 gr/dscf <u>and emissions from other sources routed to the baghouse.</u> [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-10 (Total) <= 0. 49 <u>36</u> lb/hr based on NSPS Subpart OOO PM limit of 0.014 gr/dscf <u>and emissions from other sources routed to the baghouse.</u> [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rate for PM2.5 (Total) <= 0.21 lb/hr is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Total Material Transferred <= 60,000 lb/hr based on equipment capacity. [N.J.A.C. 7:27-22.16(a)]	Total Material Transferred: Monitored by material feed/flow monitoring each hour during operation. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system once per shift <u>month</u> during operation. Record the following information and maintain all production records: 1. Date and <u>The</u> amount of bagged plaster products. [N.J.A.C. 7:27-22.16(o)]	None.

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6	Total Material Transferred <= 262,800 <u>100,000</u> tons/yr -based on maximum hourly process fill rate and 8760 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by production records or bills of lading which shows the amount of finished products for delivery. [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record the following information and maintain all production records: 1. Date and <u>The</u> amount of bagged plaster products (tons). 2. Total amount of bagged products (tons) year to date. [N.J.A.C. 7:27-22.16(o)]	None.
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<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>7</u>	<u>Particulate Emissions <= 0.014 gr/dscf from Table 2 of NSPS Subpart OOO. [40 CFR 60.672(a)]</u>	<u>Particulate Emissions: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Particulate Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]</u>
<u>8</u>	<u>The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Emission Unit: U36 Underlayment/Rock Bins and Transfer

Operating Scenario: OS8 Transfer to Surge Bin 1 – E122-PT110

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>1</u>	<u>Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>2</u>	<u>Total Material Transferred <= 175,000 lb/hr. [N.J.A.C. 7:27-22.16(e)]</u>	<u>Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>None.</u>
<u>3</u>	<u>Total Material Transferred: <=766,500 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]</u>	<u>Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U36 Underlayment/Rock Bins and TransferOperating Scenario: OS9 Transfer to Surge Bin 2 – E123-PT110

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>1</u>	<u>Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>2</u>	<u>Total Material Transferred <= 175,000 lb/hr. [N.J.A.C. 7:27-22.16(e)]</u>	<u>Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>None.</u>
<u>3</u>	<u>Total Material Transferred: <=766,500 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]</u>	<u>Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>None.</u>

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Facility Specific Requirements**

Emission Unit: ~~U37 Landplaster Bin #4 (aka Board Plant Landplaster Bin)~~**Operating Scenario:** ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD27), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.e.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred \leq 50,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
8	Total Material Transferred \leq 219,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
9	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
10	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
11	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
13	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.
14	Except as specified in paragraphs (a)(1), (a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS-Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.
16	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS-Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
17	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS-Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.
19	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
21	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
23	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
25	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
26	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
27	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
28	Opacity \leq 10 % (fugitive all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	In determining compliance with the particulate matter standards in 40 CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions: (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). (ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. (iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(e)(1)]	None.	None.	None.
30	When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6 minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6 minute averages. (NSPS Subpart OOO) [40 CFR 60.675(e)(3)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U38 Impact Mill

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	<u>TSP <= 0.22 lb/hr based on grain loading of 0.02 gr/dscf. [N.J.A.C. 7:27-22.16(a)]</u> Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD28), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse >= 0.5 and Pressure Drop Across the Baghouse <= 15 inches w.c.. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements

6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
8	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
9	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.
10	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS-Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.
12	Except as specified in paragraphs (a)(1), (a)(2), (a)(3), and (a)(4) of Section 40. CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS-Subpart A) [40 CFR 60.8(a)]	None.	None.	None.
13	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS-Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
15	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.
16	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
19	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
21	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
23	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
24	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
25	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
26	Opacity \leq 10 % (fugitive all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(b)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	<p>In determining compliance with the particulate matter standards in 40 CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(e)(1)]</p>	None.	None.	None.
28	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6 minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6 minute averages. (NSPS Subpart OOO) [40 CFR 60.675(e)(3)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U38 Impact Mill

Operating Scenario: OS1 Impact Mill #1, OS2 Impact Mill #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Material Transferred <= 50,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
2	Total Material Transferred <= 219,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
<u>3</u>	<u>All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]</u>	<u>None.</u>	<u>None.</u>	<u>Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]</u>
<u>4</u>	<u>Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]</u>	<u>None.</u>	<u>None.</u>	<u>Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]</u>
<u>5</u>	<u>The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>6</u>	<u>Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]</u>	<u>None.</u>	<u>None.</u>	<u>Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]</u>
<u>7</u>	<u>Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]</u>	<u>None.</u>	<u>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
8	Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	None.
9	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>10</u>	<u>The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>11</u>	<u>The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>11</u>	<u>Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>13</u>	<u>Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>14</u>	<u>Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>15</u>	<u>The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
16	<u>The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:</u> <u>(1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.</u> <u>(2) Safe sampling platform(s).</u> <u>(3) Safe access to sampling platform(s).</u> <u>(4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
17	<u>Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>18</u>	<u>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. (NSPS Subpart A) [40 CFR 60.11(d)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>19</u>	<u>No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>20</u>	<u>The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]</u>	<u>None.</u>	<u>None.</u>	<u>Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]</u>
<u>21</u>	<u>Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>22</u>	<u>Opacity <= 7 % (affected facility enclosed in a building not equipped with vent) (NSPS Subpart OOO). [40 CFR 60.672(e)(1)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>23</u>	<p><u>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</u></p> <p><u>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</u></p> <p><u>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</u></p> <p><u>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]</u></p>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>24</u>	<p><u>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]</u></p>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U38 Impact Mill~~**Operating Scenario:** ~~OS3 Moulding Plaster Bin Elevator E61-CD31 (venting indoors)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Total Material Transferred <= 40,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
2	Total Material Transferred <= 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U39 Impact Mill Screen

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	<u>TSP <= 0.06 lb/hr based on grain loading of 0.02 gr/dscf. [N.J.A.C. 7:27-22.16(a)]</u> Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD29), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse >= 1 and Pressure Drop Across the Baghouse <= 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements

6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred <= 50,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
8	Total Material Transferred <= 219,000 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
9	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
10	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
11	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
13	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.
14	Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.
16	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
17	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.
19	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]	None.	None.	None.
21	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
23	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
25	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
26	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
27	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
28	Opacity <= 10-7 % (<u>affected facility enclosed in a building not equipped with vent</u> fugitive all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(be)(<u>1</u>)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	<p>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]</p>	None.	None.	None.
30	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U40 Stucco Reserve Bin #2

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	<u>TSP <= 0.06 lb/hr based on grain loading of 0.02 gr/dscf. [N.J.A.C. 7:27-22.16(a)]</u> Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD30), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse >= 1 and Pressure Drop Across the Baghouse <= 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements

6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred <= 120,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
8	Total Material Transferred <= 525,600 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
9	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
10	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
11	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
13	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.
14	Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40 CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.
16	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
17	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.
19	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]	None.	None.	None.
21	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
23	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
25	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
26	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
27	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
28	Opacity <= 10-7 % (<u>affected facility enclosed in a building not equipped vent</u> fugitive all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(be)(<u>L</u>)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	<p>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]</p>	None.	None.	None.
30	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U41 Impact Mill Feed Bin

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD31), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 8 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
4	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred \leq 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
8	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
9	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.
10	Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS-Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]	None.
12	Except as specified in paragraphs (a)(1), (a)(2), (a)(3), and (a)(4) of Section 40. CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS-Subpart A) [40 CFR 60.8(a)]	None.	None.	None.
13	If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS-Subpart A) [40 CFR 60.8(a)(1)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]	None.	None.	None.
15	The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]	None.	None.	None.
16	Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
19	The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows: (1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures. (2) Safe sampling platform(s). (3) Safe access to sampling platform(s). (4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]	None.	None.	None.
21	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	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. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.
23	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
24	The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
25	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.
26	Opacity \leq 10 % (fugitive all other affected facilities) (NSPS Subpart OOO). [40 CFR 60.672(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	In determining compliance with the particulate matter standards in 40 CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions: (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). (ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed. (iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(e)(1)]	None.	None.	None.
28	When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6 minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6 minute averages. (NSPS Subpart OOO) [40 CFR 60.675(e)(3)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U41 Impact Mill Feed Bin

Operating Scenario: OS1 Feed Bin to the Impact Mill - E52-CD31-(vent indoors), ~~OS2 Impact Mill Feed Bin Elevator - E60-CD31 - (vent indoors)~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.06 lb/hr based on grain loading of 0.02 gr/dscf. [N.J.A.C. 7:27-22.16(a)] Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Total Material Transferred <= 40,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
3	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region II as required by 40 CFR 60. [40 CFR 60.4(a)]
4	Submit copies of all requests, reports, applications, submittals, and other communications required by 40 CFR 60 to the NJDEP Central Regional Enforcement Office. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
5	The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>6</u>	<u>Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]</u>	<u>None.</u>	<u>None.</u>	<u>Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]</u>
<u>7</u>	<u>Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]</u>	<u>None.</u>	<u>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a logbook. [40 CFR 60.7(b)]</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
8	<u>Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of Section 40. CFR 60.8, 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 of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). (NSPS Subpart A) [40 CFR 60.8(a)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
9	<u>If a force majeure is about to occur, occurs, or has occurred for which the affected owner or operator intends to assert a claim of force majeure, the owner or operator shall notify the Administrator, in writing as soon as practicable following the date the owner or operator first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline, but the notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall occur as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(1)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>10</u>	<u>The owner or operator shall provide to the Administrator a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the owner or operator proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure occurs. (NSPS Subpart A) [40 CFR 60.8(a)(2)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>11</u>	<u>The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Administrator. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an extension as soon as practicable. (NSPS Subpart A) [40 CFR 60.8(a)(3)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>12</u>	<u>Until an extension of the performance test deadline has been approved by the Administrator under paragraphs (a)(1), (2), and (3) of Section 40 CFR 60.8, the owner or operator of the affected facility remains strictly subject to the requirements of this part. (NSPS Subpart A) [40 CFR 60.8(a)(4)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>13</u>	<u>Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act. (NSPS Subpart A) [40 CFR 60.8(b)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>14</u>	<u>Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>15</u>	<u>The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement. (NSPS Subpart A) [40 CFR 60.8(d)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
16	<u>The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:</u> <u>(1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.</u> <u>(2) Safe sampling platform(s).</u> <u>(3) Safe access to sampling platform(s).</u> <u>(4) Utilities for sampling and testing equipment. (NSPS Subpart A) [40 CFR 60.8(e)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
17	<u>Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs. (NSPS Subpart A) [40 CFR 60.8(f)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
18	<u>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. (NSPS Subpart A) [40 CFR 60.11(d)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
19	<u>No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
20	<u>The owner or operator shall notify the Administrator of the proposed replacement of components. (NSPS Subpart A) [40 CFR 60.15]</u>	<u>None.</u>	<u>None.</u>	<u>Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]</u>
21	<u>Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
22	<u>Opacity <= 7 % (affected facility enclosed in a building not equipped with vent) [40 CFR 60.672(e)(1)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>23</u>	<p><u>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</u></p> <p><u>(i) The minimum distance between the observer and the emission source shall be 4.57 eters (15 feet).</u></p> <p><u>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</u></p> <p><u>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]</u></p>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>24</u>	<p><u>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]</u></p>	<u>None.</u>	<u>None.</u>	<u>None.</u>

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Facility Specific Requirements**

Emission Unit: U41 Impact Mill Feed BinOperating Scenario: OS2 Impact Mill Feed Bin Elevator - E60-CD31- (vent indoors)

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>1</u>	<u>TSP <= 0.06 lb/hr based on grain loading of 0.02 gr/dscf. [N.J.A.C. 7:27-22.16(a)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>2</u>	<u>Total Material Transferred <= 40,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]</u>	<u>Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>None.</u>

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New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: ~~U42 Ball Mills 1-4~~**Operating Scenario:** ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22, for each equipment (E53, E54, E55, E56). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD37), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse \geq 1 and Pressure Drop Across the Baghouse \leq 14 inches w.e.. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall inspect and maintain the baghouse on a schedule necessary to achieve the required particulate control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination at the manufacturer's specified frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event in a logbook or readily accessible computer memory. [N.J.A.C. 7:27-22.16(o)]	None.
6	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred ≤ 40,000 lb/hr. Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(e)].	None.
8	Total Material Transferred ≤ 175,200 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(e)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(e)].	None.

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Emission Unit: ~~U43 Wet End Vacuum System~~Operating Scenario: ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 1.54 lb/hr based on 0.02 grains per sec. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity \leq 20 % , exclusive of visible-condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period including periods of startup and shutdown. [N.J.A.C. 7:27-6.2(d)] and. [N.J.A.C. 7:27-6.2(e)]	None.	None.	None.
3	No Visible Emissions: There shall be no visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive thirty minute period based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	TSP \leq 2.54 tons/yr based on preconstruction permit and 8760 hours per year of operation. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	PM-10 (Total) \leq 2.54 tons/yr based on preconstruction permit and 8760 hours per year of operation. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	PM-2.5 (Total) \leq 2.54 tons/yr based on BOP140001 and 8760 hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP \leq 0.58 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	PM-10 (Total) \leq 0.58 lb/hr based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	PM-2.5 (Total) \leq 0.58 lb/hr based on BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Pressure Drop Across the Baghouse \geq 0.5- and Pressure Drop Across the Baghouse \leq 15 inches w.e. based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse- Monitored by pressure drop instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse- Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or other electronic data management system. [N.J.A.C. 7:27-22.16(e)]	None.
11	The permittee shall inspect and maintain the baghouse on a schedule that will ensure operational efficiency. The baghouse shall be operated and maintained in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by manual logging of parameter upon occurrence of event. Each instance of baghouse maintenance and filter media replacement shall be recorded. [N.J.A.C. 7:27-22.16(e)]	None.
12	Raw material limited to gypsum rock, impurities, recycled gypsum products, fiberglass, UF binder and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain invoices, bills of lading and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(e)].	None.
13	Total Material Transferred \leq 96,000 lb/hr. Maximum throughput rate based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(a)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.
14	Total Material Transferred \leq 420,480 tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(a)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(e)].	None.

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Emission Unit: U47 Reject Bin Dust Collector

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	All particulate emissions from this emission unit shall be exhausted through a baghouse (CD39), which vents indoors. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	<u>TSP <= 0.06 lb/hr based on grain loading of 0.02 gr/dscf. [N.J.A.C. 7:27-22.16(a)]</u> Maximum emission rate of TSP is below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	No Visible Emissions: There shall be no visible emissions, exclusive of visible water vapor, except for three minutes in any consecutive thirty minute period. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Pressure Drop Across the Baghouse >= 0.5 and Pressure Drop Across the Baghouse <= 15 inches w.c. based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure drop Instrument continuously, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by manual logging of parameter or storing data in a computer data system daily in a logbook or readily accessible electronic data management system. [N.J.A.C. 7:27-22.16(o)]	None.
5	The permittee shall inspect and maintain the dust collector and replace the filter media on a schedule which will ensure the dust collector efficiency is maintained. The dust collector shall be operated and maintained in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by manual logging of parameter upon occurrence of event. Each instance of dust collector maintenance and filter media replacement shall be recorded. [N.J.A.C. 7:27-22.16(e)]	None.

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6	Raw material limited to gypsum rock, impurities, recycled gypsum products, fiberglass, gypsum paper and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Material Transferred <= 120,000 lb/hr of rejected gypsum material to be recycled back into the process, based on the maximum design capacity of stucco cooling #1 (E31) and #2 (E34) elevator discharge screws. [N.J.A.C. 7:27-22.16(e)]	Other: Based on maximum equipment design capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment design capacity.[N.J.A.C. 7:27-22.16(o)].	None.
8	Total Material Transferred <= 525,600 tons/yr of rejected gypsum material to be recycled back into the process based on maximum lb/hr. [N.J.A.C. 7:27-22.16(e)]	Other: Based on maximum equipment design capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment design capacity.[N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: U51 Crusher Building and Transfer Tower

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 5.06 <u>0.32</u> tons/yr. Based on emission factors from AP-42, Section 11.19.2 maximum hourly emission rate and 8760 annual operating hours from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 2. tons/yr based on emission factors from AP-42, Section 11.19.2. Based on maximum hourly emission rate and 8760 annual operating hours from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-2.5 (Total) <= 2.610.59 tons/yr based on emission factors from AP-42, Section 11.19.2. Based on maximum hourly emission rate and 8760 annual operating hours from BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	The moisture content of the raw material transferred is > 1.3 percent by weight, from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5 2	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of condensed water vapor based on preconstruction permit. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation (in a logbook or other electronic data management system) and retain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of the equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3 6	Raw materials limited to gypsum rock, impurities, recycled gypsum products and other ingredients necessary for the production of gypsum products based on operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.

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Emission Unit: U51 Crusher Building and Transfer Tower

Operating Scenario: OS1 Transfer from #6 (Crumb) Belt to #7 Belt, OS2 Transfer from #7 Belt to #8 Belt, OS3 Transfer from #8 Belt to Wobbler Separator ~~#9 Belt~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<u>TSP <= 0.05 lb/hr based on AP-42 emission factor.</u> Maximum emission rates of TSP and PM-10 (Total) and PM-2.5 (Total) from operating permit application BOP090001 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Total Material Transferred <= 350,000 lb/hr. Maximum throughput rate based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
3	Total Material Transferred <= 1,533,000 <u>300,000</u> tons/yr based on maximum lb/hr. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)]. Other: Monitored by Bills of Lading or production records showing the amount of material in tons. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)]. <u>Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month of operation. Record the following information and maintain production records:</u> <u>1. The amount of material (tons) each month of operation.</u> <u>2. The total material transferred (tons) year to date. [N.J.A.C. 7:27-22.16(o)]</u>	None.

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Emission Unit: U51 Crusher Building and Transfer Tower

Operating Scenario: OS4 Transfer from Gyratory Crusher or Wobbler Separator or Reclaim Belt to #9 Belt ~~#10 Belt~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<u>TSP <= 0.05 lb/hr based on AP-42 emission factor. TSP <= 0.53 lb/hr from operating permit application. Maximum emissions of PM-10 (Total) and PM-2.5 (Total) are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. BOP090001.</u> [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.21 lb/hr from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-2.5 (Total) <= 0.21 lb/hr from operating permit application BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
<u>42</u>	Total Material Transferred <= 350,000 lb/hr. Maximum throughput rate from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
53	Total Material Transferred <= 1,533,000/300,000 tons/yr based on maximum lb/hr, from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)] Other: Monitored by Bills of Lading or production records showing the amount of materials in tons. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)] Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month of operation. Record the following information and maintain production records: 1. The amount of material (tons) each month of operation. 2. The total material transferred (tons) year to date. [N.J.A.C. 7:27-22.16(o)]	None.

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Emission Unit: U51 Crusher Building and Transfer Tower

Operating Scenario: OS5 Transfer from #9 Belt to #10 Belt~~#11 Belt~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<u>TSP <= 0.05 lb/hr based on AP-42 emission factor. Maximum emission rates of PM-10 (Total) and PM-2.5 (Total) are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. TSP <= 0.63 lb/hr from operating permit application BOP090001.</u> [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.39 lb/hr from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	PM-2.5 (Total) <= 0.39 lb/hr from operating permit application BOP140001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
<u>42</u>	Total Material Transferred <= 350,000 lb/hr. Maximum throughput rate from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
53	Total Material Transferred <= 1,533,000/300,000 tons/yr based on maximum lb/hr, from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)]. Other: Monitored by Bills of Lading or production records showing the amount of materials in tons. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)]. Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month of operation. Record the following information and maintain production records: 1. The amount of material (tons) each month of operation. 2. The total material transferred (tons) year to date. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U51 Crusher Building and Transfer TowerOperating Scenario: OS6 Transfer to Bar Feeder

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>1</u>	<u>TSP <= 0.05 lb/hr based on AP-42 emission factor. Maximum emission rates of PM-10 (Total) and PM-2.5 (Total) are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22.. [N.J.A.C. 7:27-22.16(a)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>2</u>	<u>Total Material Transferred <= 350,000 lb/hr. Maximum throughput rate from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]</u>	<u>Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>None.</u>
<u>3</u>	<u>Total Material Transferred <= 300,000 tons/yr. [N.J.A.C. 7:27-22.16(a)]</u>	<u>Other: Monitored by Bills of Lading or production records showing the amount of materials in tons. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month of operation. Record the following information and maintain production records:</u> <u>1. The amount of material (tons) each month of operation.</u> <u>2. The total material transferred (tons) year to date. [N.J.A.C. 7:27-22.16(o)]</u>	<u>None.</u>

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U51 Crusher Building and Transfer TowerOperating Scenario: OS7 Transfer from Bar Feeder to #6 (Crumb) Belt

<u>Ref.#</u>	<u>Applicable Requirement</u>	<u>Monitoring Requirement</u>	<u>Recordkeeping Requirement</u>	<u>Submittal/Action Requirement</u>
<u>1</u>	<u>TSP <= 0.05 lb/hr based on AP-42 emission factor. Maximum emission rates of PM-10 (Total) and PM-2.5 (Total) are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22.. [N.J.A.C. 7:27-22.16(a)]</u>	<u>None.</u>	<u>None.</u>	<u>None.</u>
<u>2</u>	<u>Total Material Transferred <= 350,000 lb/hr. Maximum throughput rate from operating permit application BOP090001. [N.J.A.C. 7:27-22.16(a)]</u>	<u>Other: Based on equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>Other: Maintain records of manufacturer specifications showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].</u>	<u>None.</u>
<u>3</u>	<u>Total Material Transferred <= 300,000 tons/yr. [N.J.A.C. 7:27-22.16(a)]</u>	<u>Other: Monitored by Bills of Lading or production records showing the amount of materials in tons. [N.J.A.C. 7:27-22.16(o)]</u>	<u>Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month of operation. Record the following information and maintain production records:</u> <u>1. The amount of material (tons) each month of operation.</u> <u>2. The total material transferred (tons) year to date. [N.J.A.C. 7:27-22.16(o)]</u>	<u>None.</u>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U52 Temporary Discharge Auger #1~~**Operating Scenario:** ~~OS Summary~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity \leq 20 %, exclusive of condensed water vapor, except for 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27-6.2(e)]	None.	None.	None.
2	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination each month during operation. Conduct visual opacity inspections during daylight hours to identify if the stack has visible emissions, other than condensed water vapor. Select an observation position enabling clear view of emission point(s), minimum 15 feet away without sunlight shining directly into the eyes. Observe for a minimum duration of 30 minutes. Clock observation with two stopwatches starting the 1st watch at the commencement of the 30 minute observation period and starting and stopping the 2nd watch every time visible emissions are first seen and when they cease, and record the observation. If visible emissions are observed for more than 3 minutes in the 30 consecutive minutes: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the opacity problem is not corrected within 24 hours, perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Conduct such test each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
3	TSP \leq 1.53 tons/yr. Annual emission limit based on maximum annual throughput, from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	PM-10 (Total) \leq 0.72 tons/yr. Annual emission limit based on maximum annual throughput, from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Raw material limited to De-watering material from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing raw materials used. [N.J.A.C. 7:27-22.16(e)].	None.
6	Total Material Transferred \leq 9,600 tons/yr based on maximum hourly throughput rate and hours of operation, from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hours of Operation \leq 960 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Maintain onsite records that are easily accessible for Department inspection. [N.J.A.C. 7:27-22.16(e)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: ~~U52 Temporary Discharge Auger #1~~**Operating Scenario:** ~~OS1 7" horizontal auger, 9" diagonal auger; 240 RPM; 6-10 tons/hr~~

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 3.18 lb/hr. Maximum emission rate, from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 1.5 lb/hr. Maximum emission rate, from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Maximum emission rates of VOC, NOx, CO, and SO2 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22, from BOP160001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Total Material Transferred <= 10 tons/hr from BOP160001. [N.J.A.C. 7:27-22.16(a)]	Other: Based on equipment capacity. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of manufacturer specifications showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U53 Franklin Miller DeLumper

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR 60 Subpart A 40 CFR 60 Subpart OOO [None]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Raw material limited to gypsum rock, impurities, recycled gypsum products, and other ingredients necessary for the production of gypsum products. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, bills of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
5	Total Material Transferred <= 4.31 tons/hr of plaster additives, from BOP160002. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred <= 37,778 tons/yr of plaster additives based on maximum hourly throughput rate and 8760 hr/yr, from BOP160002. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing the annual tons/yr throughput.[N.J.A.C. 7:27-22.16(o)].	None.
7	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866. (NSPS Subpart A) [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. (NSPS Subpart A) [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]
9	The subpart A requirement under 40 CFR 60.6(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR 60 Subpart OOO. (NSPS Subpart OOO) [40 CFR 60.676(h)]	None.	None.	None.
10	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. (NSPS Subpart A) [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. (NSPS Subpart A) [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]	None.
12	Within 60 days after achieving the maximum production rate at which the affected facility will operate, but not later than 180 days after initial startup of the facility, the owner or operator shall conduct performance test(s) and shall furnish the Administrator a written report of the results. (NSPS Subpart A) [40 CFR 60.8(a)]	None.	None.	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of the performance test(s) to the Administrator. [40 CFR 60.8(a)]
13	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.
14	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.8(c)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.
16	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. (NSPS Subpart A) [40 CFR 60.8(f)]	None.	None.	None.
17	The owner or operator shall demonstrate compliance with NSPS opacity standards specified in 40 CFR Part 60. (NSPS Subpart A) [40 CFR 60.11(b)]	Monitored by visual determination once initially, based on 6 minute blocks. Testing shall be conducted using Reference Method 9 in Appendix A of NSPS. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-min averages) for the performance test. [40 CFR 60.11(b)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain records of opacity of emissions based on Method 9 observations. [40 CFR 60.11(e)(2)]	Submit a report: At a common schedule agreed upon by the operator and the Administrator. The owner or operator shall submit results of Method 9 observation data to the Administrator. [40 CFR 60.11(e)(2)]
18	The NSPS opacity standard shall apply at all times except during periods of startup, shutdown, malfunctions and as otherwise specified in the applicable standard. (NSPS Subpart A) [40 CFR 60.11(c)]	None.	None.	None.
19	At all times, including periods of start-up, 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. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. (NSPS Subpart A) [40 CFR 60.11(d)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	For the purpose of demonstrating initial compliance, opacity observations shall be conducted concurrently with the initial performance test required in 40 CFR Part 60.8. If no performance test is required to be performed, then opacity observations shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated but no later than 180 days after initial startup of the facility. (NSPS Subpart A) [40 CFR 60.11(e)(1)]	None.	None.	Submit notification: As per the approved schedule. The owner or operator shall notify the Administrator of the anticipated date for conducting the opacity observation. The notification shall also include, if appropriate, a request for the Administrator to provide a visible emissions reader during the performance test. The notification shall be postmarked not less than 30 days prior to such a date. [40 CFR 60.7(a)(6)]
21	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (NSPS Subpart A) [40 CFR 60.12]	None.	None.	None.
22	The owner or operator shall notify the Administrator of the proposed replacement of components, upon triggering reconstruction as defined at 40 CFR 60.15. (NSPS Subpart A) [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
23	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. (NSPS Subpart A) [40 CFR 60.19]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>In determining compliance with the particulate matter standards in 40CFR 60.672(b) or 40 CFR 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40 CFR 60.11, with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) 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 of Appendix A-4 of this part, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. 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. (NSPS Subpart OOO) [40 CFR 60.675(c)(1)]</p>	None.	None.	None.
25	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b) or 40 CFR 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. (NSPS Subpart OOO) [40 CFR 60.675(c)(3)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 60.8(d) to a 7-day advance notification. (NSPS Subpart OOO) [40 CFR 60.675(g)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U53 Franklin Miller DeLumper

Operating Scenario: OS1 Feed Hopper - Fugitive emissions from building openings

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rates of TSP and PM-10 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22, from BOP160002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Opacity <= 7 %. Fugitive emissions from building openings must not exceed 7 percent opacity. (NSPS Subpart OOO). [40 CFR 60.672(e)(1)]	Other: Monitored by an initial Method 9 (40 CFR Part 60, appendix A-4) performance test according to 40 CFR 60.675 and 40 CFR 60.11.[40 CFR 60.675(d)(1)].	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [40 CFR 60.676(b)(1)]	Conduct a performance test: As per the approved schedule 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. The owner or operator shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). [40 CFR 60.8(a)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U53 Franklin Miller DeLumper

Operating Scenario: OS2 Delumper/Discharge Auger - Fugitive emissions from building openings

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum emission rates of TSP and PM-10 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22, from BOP160002. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Opacity <= 7 %. Fugitive emissions from building openings must not exceed 7 percent opacity. (NSPS Subpart OOO). [40 CFR 60.672(e)(1)]	Other: Monitored by an initial Method 9 (40 CFR Part 60, appendix A-4) performance test according to 40 CFR 60.675 and 40 CFR 60.11.[40 CFR 60.675(d)(1)].	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [40 CFR 60.676(b)(1)]	Conduct a performance test: As per the approved schedule 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. The owner or operator shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s). [40 CFR 60.8(a)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U54 Resin Extrusion Process**Subject Item:** CD41 Polypropylene Pellet Silo Cartridge #1, CD42 Polypropylene Pellet Silo Cartridge #2, CD43 Polypropylene Pellet Silo Cartridge #3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall inspect and maintain the particulate control device and replace the filter cartridge on a schedule that maintains the designed particulate control efficiency. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by visual determination at the manufacturer's specified frequency and at least monthly[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U54 Resin Extrusion Process

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent by volume of the VOC from each source operation. This applies to operating scenarios U54 OS5 and U54 OS6. [N.J.A.C. 7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for each different kind of batch or continuous process for which the source operations is used.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. The maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used for each process. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under operating conditions. The records shall be maintained for a period of no less than five years and make those records available upon request of the Department or EPA. [N.J.A.C. 7:27-16.16(g)1] and[N.J.A.C. 7:27-16.22(a)].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) <= 0.67 tons/yr based on the maximum hourly emission rate and 8760 hours per year, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records based on the maximum hourly emission rate, showing the maximum annual tons per year emission limit. [N.J.A.C. 7:27-22.16(o)]	None.
3	TSP <= 1.11 tons/yr based on the maximum hourly emission rates and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records based on the maximum hourly emission rate, showing the maximum annual tons per year emission limit. [N.J.A.C. 7:27-22.16(o)]	None.
4	PM-10 (Total) <= 1.11 tons/yr based on the maximum hourly emission rates and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records based on the maximum hourly emission rate, showing the maximum annual tons per year emission limit. [N.J.A.C. 7:27-22.16(o)]	None.
5	PM-2.5 (Total) <= 1.11 tons/yr based on the maximum hourly emission rates and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records based on the maximum hourly emission rate, showing the maximum annual tons per year emission limit. [N.J.A.C. 7:27-22.16(o)]	None.
6	HAPs (Total) <= 0.00517-00765 tons/yr based on the maximum hourly emission rate of Formaldehyde and 8760 hours per year, from BOP180001. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records based on the maximum hourly emission rate, showing the maximum annual tons per year emission limit. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Formaldehyde \leq 0.00517 tons/yr based on the maximum hourly emission rate and 8760 hours per year, from BOP180001. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records based on the maximum hourly emission rate, showing the maximum annual tons per year emission limit. [N.J.A.C. 7:27-22.16(o)]	None.
8	Raw materials limited to resin pellets, pigmented resin pellets, and resin substrate. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, billing of lading, and/or MSDS sheets for raw materials received. [N.J.A.C. 7:27-22.16(o)].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U54 Resin Extrusion Process

Operating Scenario: OS1 Vacuum Loader, OS2 Hopper Dryer

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on 0.02 grains per sec <u>potential emission rate from source operation of 50 lb/hr or less.</u> [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rate for TSP, PM-10, and PM-2.5 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records, based on the maximum equipment capacity, showing that the PTE for each air contaminant is below reporting threshold. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Material Transferred <= 1,323 lb/hr of resin pellets, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred <= 5,795 tons/yr of resin pellets, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing the annual tons/yr throughput.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U54 Resin Extrusion Process

Operating Scenario: OS3 Pigment Feeder 1, OS4 Pigment Feeder 2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr based on <u>potential emission rate from source operation of 50 lb/hr or less</u> 0.02 grains per sec. [N.J.A.C. 7:27- 6.2(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rate of TSP, PM-10, and PM-2.5 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records, based on the maximum equipment capacity, showing that the PTE for each air contaminant is below reporting threshold. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Material Transferred <= 600 lb/hr of pigmented resin pellets, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing maximum equipment capacity.[N.J.A.C. 7:27-22.16(o)].	None.
6	Total Material Transferred <= 2,628 tons/yr of pigmented resin pellets, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing the annual tons/yr throughput.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Emission Unit: U54 Resin Extrusion Process

Operating Scenario: OS5 Resin Extruder

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.99 lb/hr based on 0.02 grains per scf. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity \leq 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	Opacity: Monitored by visual determination each month during operation. A certified opacity reader shall conduct visual opacity inspections during daylight hours in accordance with N.J.A.C. 7:27B-2. [N.J.A.C. 7:27- 6.3(c)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2.5 Required Observation Data, including Plume Observation Record (Form AIR-14, Appendix 1); and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27- 6.3(c)]	None.
3	VOC (Total) \leq 0.15 lb/hr based on the maximum equipment capacity and emission factors from the Journal of Air & Waste Management Association, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records, based on the maximum equipment capacity, showing the maximum hourly emission rate. [N.J.A.C. 7:27-22.16(o)]	None.
4	TSP \leq 0.06 lb/hr based on the maximum equipment capacity and emission factors from the Journal of Air & Waste Management Association, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records, based on the maximum equipment capacity, showing the maximum hourly emission rate. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	PM-10 (Total) \leq 0.06 lb/hr based on the maximum equipment capacity and emission factors from the Journal of Air & Waste Management Association, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records, based on the maximum equipment capacity, showing the maximum hourly emission rate. [N.J.A.C. 7:27-22.16(o)]	None.
6	PM-2.5 (Total) \leq 0.06 lb/hr based on the maximum equipment capacity and emission factors from the Journal of Air & Waste Management Association, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records, based on the maximum equipment capacity, showing the maximum hourly emission rate. [N.J.A.C. 7:27-22.16(o)]	None.
7	Formaldehyde \leq 0.00118 lb/hr based on the maximum equipment capacity and emission factors from the Journal of Air & Waste Management Association, from BOP180001. [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Formaldehyde: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records, based on the maximum equipment capacity, showing the maximum hourly emission rate. [N.J.A.C. 7:27-22.16(o)]	None.
8	Total Material Transferred \leq 50 tons/hr. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing maximum equipment capacity. [N.J.A.C. 7:27-22.16(o)].	None.
9	Total Material Transferred \leq 3,750 tons/yr of resin based on maximum equipment capacity and 8760 hr/yr, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing the annual tons/yr throughput. [N.J.A.C. 7:27-22.16(o)].	None.
10	The owner or operator shall monitor that the indicator light is on while CD40 is in operation to show high voltage is present. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once per calendar day during operation. The owner or operator shall monitor the indicating light based on manufacturer's recommendations. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
11	The owner or operator shall inspect and maintain the electrostatic precipitator CD40 in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record each inspection and maintenance event. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U54 Resin Extrusion Process

Operating Scenario: OS6 Cooling Tower / Cooling Water Tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 1.83 lb/hr based on 0.02 grains per scf. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity <= 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum emission rate of VOC, TSP, PM-10, and PM-2.5 are below reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22, from BOP170002. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain emission calculation records, based on the maximum cooling tower circulation water flowrate, showing that the PTE for each air contaminant is below reporting threshold. [N.J.A.C. 7:27-22.16(o)]	None.
5	Cooling tank circulation water flowrate <= 220 gallons per minute (gpm). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records showing maximum cooling tank circulation water flowrate.[N.J.A.C. 7:27-22.16(o)].	None.

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Facility Specific Requirements**

Emission Unit: U54 Resin Extrusion Process
Operating Scenario: OS7 Polypropylene Pellet Silo

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions \leq 0.5 lb/hr based on 0.02 gr/dscf and 1200 acfm. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity \leq 20 % , exclusive of condensed water vapor, except for 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] and [N.J.A.C. 7:27- 6.2(e)]	Opacity: Monitored by visual determination each month during operation (i.e., during loading or unloading operation). A certified opacity reader shall conduct visual opacity inspections during daylight hours in accordance with N.J.A.C. 7:27B-2. [N.J.A.C. 7:27- 6.3(c)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Record and retain the following: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2.5 Required Observation Data, including Plume Observation Record (Form AIR-14, Appendix 1); and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27- 6.3(c)]	None.
3	No Visible Emissions, exclusive of condensed water vapor, except for no more than 3 minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	TSP \leq 0.195 lb/hr based on the 0.02 gr/dscf and manufacturer airflow capacity. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially based on the manufacturer bin vent airflow capacity, and outlet grain loading. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain record of emission calculation and supporting vendor data. [N.J.A.C. 7:27-22.16(o)]	None.
5	PM-10 (Total) \leq 0.195 lb/hr based on the 0.02 gr/dscf and manufacturer airflow capacity. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially based on the manufacturer bin vent airflow capacity, and outlet grain loading. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain record of emission calculation and supporting vendor data. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	PM-2.5 (Total) <= 0.195 lb/hr based on PM10 emissions. [N.J.A.C. 7:27-22.16(a)]	None.	PM-2.5 (Total): Recordkeeping by the maximum equipment design capacity.[N.J.A.C. 7:27-22.16(o)].	None.
7	Raw materials limited to resin pellets, pigmented resin pellets. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by reviewing raw material delivery records per delivery.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain invoices, billing of lading, and/or MSDS sheets for raw materials received.[N.J.A.C. 7:27-22.16(o)].	None.
8	Total Material Transferred <= 50 tons/hr of resin pellets, pigmented resin pellets based on manufacturer specifications and maximum equipment design capacity. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain records of manufacturer specifications showing the maximum equipment design capacity.[N.J.A.C. 7:27-22.16(o)].	None.
9	Total Material Transferred <= 438,000 tons/yr of resin pellets, pigmented resin pellets based on maximum equipment capacity and 8760 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored by Bills of Lading which shows the amount of resin pellets loaded to <u>the</u> silo per delivery . [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery <u>per month of operation</u> . Record the following information and maintain all bills of lading : 1. Delivery date and a Amount of resin pellets loaded (tons) <u>per month of operation</u> . 2. Total resins amount (tons) year to date. [N.J.A.C. 7:27-22.16(o)]	None.

FUGITIVE PM MANAGEMENT PLAN

Georgia-Pacific Gypsum LLC.
CAMDEN, NEW JERSEY

January 2018<<Update with Revision Date>>

1.0 INTRODUCTION AND SCOPE

A Fugitive PM Management Plan ("Plan") has been developed to identify the best management control measures that will be implemented to minimize the release of fugitive PM emissions at Georgia-Pacific Gypsum LLC (GP) Camden, New Jersey Plant ("Plant"). The Plan and best management control practices were developed in accordance with standard fugitive PM practices and guidance set forth by EPA.

This Plan presents the best management practices (BMP) measures for fugitive PM emissions, which will be implemented by GP. The Plan includes the following elements:

- a. A general description of facility site location and process operations;
- b. Identification of the sources of outside fugitive PM emissions;
- c. Procedures for employee training;
- d. A description of the applicable BMPs as applied to each of the fugitive PM source categories identified herein;
- e. Procedures for inspection, maintenance, and corrective measures; and
- f. Program scheduling, reporting and Force Majeure issues.

A general description of the Plant site location and operations is presented in Section 2. Plant wide fugitive PM emission sources are identified in Section 3. The BMP measures are outlined in Section 4. The BMP measures identify the specific fugitive PM control practices that will be implemented for each fugitive PM emission source category. Section 5 provides fugitive PM management program scheduling, reporting and Force Majeure issues.

1.1 Fugitive PM Management Team

A Plan Management Team will be established and comprised of plant personnel. The Plan Management Team will be responsible for ensuring that the requirements of the Plan are implemented. The Plant Manager will have the overall responsibility for providing resources for this Plan. The team will be comprised of the following named positions:

- a. Plant Manager
- b. Environmental Manager

The Plan Management Team will review the plan semiannually following NJDEP's acceptance of the Plan. The Team will review the overall effectiveness of this Plan and will also review the implementation schedule provided in Section 5, Table 5-1 to ensure that tasks are accomplished in a timely manner. If necessary, the Team will take corrective actions to address any deficiencies and the Plan will be revised where appropriate.

1.2 Revisions to the Plan

The plan may require future revisions to reflect equipment and operational changes. Any future revisions (consisting of revised text, page number and date of revision) to the Plan shall be submitted to the NJDEP Regional Enforcement Officer for review.

2.0 GENERAL OVERVIEW OF OPERATIONS

2.1 Site Description

GP operates a Gypsum manufacturing plant at 1101 South Front Street in the City of Camden, Camden County, New Jersey. The facility is located adjacent to the Delaware River and ~~is~~ can be operated up to 24 hours a day, seven days a week. The North, South, and East property lines ~~entire~~of the site (i.e., the site boundary not located at the Delaware River) is surrounded by a chain link fence, and there is 24 hour a day security. The location is depicted on the Location Map in figure# 1.

The site extends from approximately 250 feet north of the intersection of Walnut Street and South Front Street to the intersection of Kaighn Avenue and Front Street. Prominent structures at the site include an idled wallboard manufacturing plant, an office building, a gypsum rock storage area, ~~a vehicle wash down building~~ and two above ground storage tanks (AST). The site includes approximately 730 feet of shoreline on the Delaware River.

2.2 General Description of Operations

The GP plant manufactures gypsum products from raw gypsum rock, which is brought to the site by ~~ship~~truck. The gypsum rock is stored in a large bulk storage pile on the west side of the plant site. The process involves crushing the rock in an enclosed building and producing various gypsum products.

3.0 FUGITIVE PM EMISSION SOURCES

This section identifies the various operations and the variables that have the potential to generate fugitive PM emissions at the Plant. The location of these sources within the Plant is identified in Figure 2 (GP Plot Plan). Control measures for these sources are identified in Section 4.

3.1 Outdoor Fugitive Emissions

3.1.1 Material Storage Piles

A material storage pile is any mound of material placed in an outdoor location. The storage piles located on the west side of the facility are uncovered due to ~~the ship-unloading process and~~ the frequent necessity to transfer the material between storage and processing. Material from these piles is transferred into the process with the use of heavy mobile equipment. Any fugitive PM generated from these storage piles may result from three activities: 1) ~~ship~~-unloading of the gypsum raw material onto the piles; 2) excessive weather /win d disturbance of the piles; and 3) and removal of material from the piles.

Wind erosion of storage piles can contribute to fugitive PM emissions. Wind erosion occurs when wind gusts strikes the surface. The intensity of wind eroded emissions depends upon the size distribution of the material, its moisture content, wind speed and direction, as well as the size and height of the pile.

3.1.2 Material Handling

Material handling is the description given to the movement of raw and process materials to and from receiving, storage, and process locations. Material handling is a combination of loading, transfer, conveying and unloading operations. The types of loading and unloading operations at the Plant include handling by heavy equipment. The transfer and conveying of materials are accomplished with belt conveyors, bucket elevators and screw conveyors.

3.1.3 Unpaved Surfaces

The unpaved area includes the gypsum raw material and reclaim storage areas on the west side of the site. The fugitive PM emissions from unpaved surfaces depends upon the moisture content of the surface, frequency of traffic, vehicle speed and weight, and number of tires on the vehicle .

3.1.4 Paved Surfaces

Fugitive PM emissions may be generated from paved surfaces from vehicle activity. Among the sources of fugitive PM emissions from paved surfaces are:

- a. Carryout or tracking of mud and dirt from unpaved surfaces (generally minimal). This is controlled by maintaining dedicated mobile equipment within the gypsum storage pile area for managing the pile to reduce tracking of material outside of the storage pile zone. A small amount of material may be tracked outside of the area when the equipment is in need of service.
- b. Wind-blown fugitive PM emissions from nearby sources.

3.2 Variables that Influence Fugitive PM Emissions

A variety of factors and conditions may affect fugitive emission levels and have been taken into consideration when determining plan control measures to be implemented at the Plant. The influencing factors include some of the following:

3.2.1 Type of Equipment and Operations Employed

Mobile equipment may generate fugitive emissions. Fugitive PM emissions from truck transport vehicles depend on the degree of material deposits, the weight of the vehicle, number of tires, traffic speed and moisture content of the roadway.

3.2.2 Weather conditions

Emissions can vary according to changes in humidity and air and ground temperature. Fugitive emission levels may increase with high winds and during the summer months because of a higher evaporation rate, reduced surface moisture content and de-agglomeration of road deposits from vehicular traffic.

4.0 BEST MANAGEMENT PRACTICES

4.1 General Description

Best Management Practices are general practices that are inexpensive, relatively simple, and applicable to a wide variety of activities. These practices shall be employed at the Plant to minimize fugitive PM emissions. BMP practices address the following general areas:

- a. Employee Training
 - b. Good Housekeeping Practices
 - c. Preventive Maintenance Program
 - d. Monthly inspection Program
 - e. Plant Specific BMPs
- Source category specific BMP practices are provided in Section 4.6.

4.2 Employee Training

The Plan is based on a joint commitment by management and employees to implement BMPs. Accordingly, GP Camden will train management and employees to conduct activities in a manner which minimizes fugitive PM emissions.

Training shall be provided to individuals who are involved with operations relating to fugitive PM emission sources. Training will be performed on annual basis. New employees involved with Plan procedures will be trained within 90 days of employment. Records of the frequency, and names of the individuals trained shall be maintained with the facility's Training Records for a period of at least five years.

Employee training shall address the following elements:

- a. Objectives of the Plan
- b. Identification of potential fugitive PM sources
- c. Geographical features, including nearest neighbors
- d. Wind and seasonal factors that affect fugitive PM migration
- e. Best Management Practices
- f. Preventative Maintenance
- g. Employee's responsibility for implementation and compliance
- h. Review of significant fugitive PM incidents, if any.
1. Good Housekeeping Practices

4.3 Good Housekeeping Practices

The Plant will assure that good housekeeping practices are followed inside and outside all process buildings as a preventative measure to minimize the potential for the creation of fugitive PM. Good housekeeping is essentially the maintenance of a clean, orderly work environment and contributes to the overall plant pollution control effort. The maintenance of a clean, orderly facility reduces the possibility of accidents, product losses and fugitive PM emissions.

Elements of the Plant's Good Housekeeping practices will include:

- a. Neat and orderly storage of materials, bags, and drums;

- b. Regular cleanup of material spillage, inside and outside of the process buildings, as necessary to minimize outside fugitive PM;
- c. Sweeping around obstacles in the paved road surface areas identified in Figure 2, as needed, weather permitting.
- d. Providing training to employees about good housekeeping; and
- e. Monthly inspections of indoor and outdoor Plant areas to identify those areas that may require additional attention.

4.4 Preventative Maintenance Program

An effective preventive maintenance ("PM") program is important not only for operational reasons, but also to provide a degree of environmental protection because equipment malfunctions have the potential for releases to the environment. The Plant will implement a PM program to ensure that fugitive PM control equipment is kept in a well-maintained condition. The PM program will include inspection and maintenance of plant fugitive PM control equipment. The elements of the PM program will include the following:

- a. Identification of control equipment or systems (a list of all control devices can be found at the end of this plan) to which the PM program should apply;
- b. Periodic inspections of identified equipment and systems; and
- c. Maintenance of completed PM records on the control equipment and systems.

4.4.1 Baghouse Preventative Maintenance

PM procedures are scheduled to be performed on each baghouse with an outdoor stack. The following areas will be inspected if applicable:

- Clean Air Side (check for powder buildup and moisture)
- Bag Condition
- Door Seals, if applicable
- Leaks
- Pulse Air System
- Outlet Dampers, if applicable
- Suction Lines
- Bag Seals
- Differential pressure
- Inlet Dampers, if applicable

4.5 Monthly Inspection Program

GP has developed a program to monitor the effectiveness of the BMPs and to assist with the implementation and compliance of the Plan. Monthly visual inspections will be conducted to 1) observe fugitive PM emission sources without controls and associated areas; 2) identify equipment and/or conditions that may require corrective action as indicated in the Plan; and 3) assess the overall effectiveness of the control measures, including good housekeeping practices. The inspection program includes: 1) Monthly inspection procedures; 2) corrective action response procedures, and 3) recordkeeping procedures. Monthly inspections will be conducted by the Environmental coordinator, or a member of the Team. All inspections will be documented on the

appropriate inspection forms provided in Appendix A. The completed forms will be maintained on-site for a period of not less than five years.

Inspections shall be conducted only on those equipments without controls and plant areas identified in Section 3. If the visual inspections indicate conditions that a particular piece of equipment needs attention, the corrective action practices outlined in Section 4.5.1 below will be implemented.

A. Monthly Inspections Defined

Monthly inspections are defined herein to include one (1) inspection per month. The monthly frequency may be adjusted depending upon holiday and /or work schedules.

B. Monthly Inspection Program - General

Monthly visual inspections will be conducted for conditions or faulty equipment that has the potential to cause fugitive PM emissions. The inspection program will include material storage and handling areas, loading and unloading areas, processing areas, and control equipment. Point source and outdoor fugitive (Plant roads and yards) emissions inspection forms are provided in Appendix A.

C. Daily Point Source PM Collector Inspection Program
The following applies to sources that are in operation.

- The baghouses will be inspected daily and differential pressure recorded.

In addition, these sources will also be inspected monthly to ensure:

- no excessive pressure drop is present across baghouses
- inspection of doors and cover to ensure they are closed tightly
- all rotary valves are working properly
- no baghouses are being bypassed

If the inspections indicate a problem with a particular control device or if a piece of equipment needs attention, the corrective measures will be implemented and the work will be recorded in the plant's Maintenance computer log.

D. Monthly Plant Roads and Yards Inspection

All onsite areas outside of the process buildings will be inspected on a monthly basis. Good housekeeping, and storage pile conditions will be recorded on the monthly inspection report form provided in Appendix A.

4.5.1 Corrective Action Procedures

If any inspections or routine observations reveal issues, a course of action to solve or clean up will be developed following the inspection or observation. Depending on whether the problem necessitates immediate response, the inspector may recommend follow-up actions. If a problem can be corrected immediately utilizing available personnel, the Supervisor will initiate corrective measures. If the problem cannot be corrected within the shift that the problem was noted, then the

Department Supervisor will be responsible for developing an appropriate corrective action. Most fugitive PM control problems will be corrected within one week of discovery. For all fugitive PM control equipment problems which cause off-property effects, including odors, or which might reasonably result in citizen's complaints, NJDEP will be notified within 48 hours of the problem discovery by calling the NJDEP 24-hour hotline at 1-877-WARNDEP (1-877-927-6337). Within two (2) weeks of the discovery, a written notification will be sent to NJDEP Bureau of Air Compliance and Enforcement's Southern Regional Office detailing the nature of the problem and the step(s) taken to solve the problem. If the problem still persists at the time of writing the notification, the letter should include the reason and schedule to solve the problem. If the problem results in an emission that is believed to be in violation of an air permit or N.J.A.C. 7:27-5 (Prohibition of Air Pollution), then that process will be shut down until corrections can be made.

4.5.2 Recordkeeping

GP will maintain all records related to the Plan for a period of five years. The Plan records shall be maintained by the Environmental Department Manager or designee and shall be made available to the NJDEP as requested during inspections. Plan records will include the following:

- a. Monitoring and Inspection Records
- b. Preventive Maintenance for baghouses
- c. Training Records

4.6 Plant and Area Specific BMP Practices

The following BMP practices will be implemented for the point source and fugitive PM emission sources at the GP Plant.

4.6.1 Material Storage Piles

A. Operational Precautions

1. Instruct heavy equipment operators to load, lift, haul and dump in a manner that minimizes fugitive PM emissions.
 - a. Minimize the drop height of front-end loader buckets.

2. Restrict load, lift haul and dumping activities during high wind conditions as appropriate based upon team judgment or designee.

B. High Wind Fugitive PM Control Procedures

When it is observed by the front-end loader operator that fugitive emissions are moving from the Plant to a location offsite, the following procedures will be followed:

1. Immediately notify a member of the team:
2. A member of the team or designee will determine the source. If needed, the team will determine if the storage yard operations should cease based on the following criteria:

- a. Proximity of operations to property line.
- b. Potential offsite impact

3. If operations continue during windy conditions based on the factors described above, then:

- a. A member of the team or designee will monitor the storage yard operations until the wind speed and direction to make sure there are no off-site impacts.

4.6.2 Unpaved Surfaces

Approximately 60% of the Plant's surfaces are paved. Apart from small, landscaped areas, ~~the only unpaved area is the gypsum-~~ pile area, in which raw gypsum rock and waste gypsum material (i.e., "reclaim") is stored- ~~storage pile areas.~~ This area is predominantly, ~~which is several feet below local grade, is not~~ traveled by ~~contractor truck, only by~~ bucket wheel loader or similar type of construction equipment. Once or twice a year, gypsum rock will be delivered to the site and the unpaved storage pile area will be traveled by 3rd party contractor trucks. - ~~Fugitive~~ fugitive PM generation ~~from on this~~ from the unpaved storage pile area is quantified in the facility's emissions calculations ~~insignificant, therefore, no plans for paving or wetting have been proposed.~~

A. Good Housekeeping

1. Clean spills as necessary to minimize outside fugitive PM emissions. Any significant spills that are contributing or believed to have the potential to significantly contribute to an offsite fugitive PM emission will be cleaned within twenty-four hours to minimize such an impact. However, if a spill occurs that has a significant offsite impact and is too large for the Plant to clean up, requiring outside assistance, the spill will be cleaned up as soon as possible. In addition NJDEP will be notified within 48 hours of the problem discovery by calling the NJDEP 24-hour hotline at 1-877- WARNDP (1-877-927-6337). Within two (2) weeks of the discovery, a written notification will be sent to NJDEP Bureau of Air Compliance and Enforcement's Southern Regional Office detailing the nature of the problem and the step(s) taken to solve the problem. If the problem still persists at the time of writing the notification, the letter should include reason for the problem persistence or reason for the delay in solving the problem and the estimated time for completion.

4.6.3.1.1 Paved Surfaces

A. Good Housekeeping

Sweep paved road surfaces or a water truck will be used on a periodic basis. In winter months, sweeping will be done as weather permits (sweeper truck equipment will not operate in ice, snow and standing water conditions).

B. Dedicated Mobile Equipment

Mobile equipment dedicated to the storage piles area reduces the amount of material tracked onto the paved surfaces and the associated fugitive emissions from the pavement. The equipment may leave the storage pile area for maintenance.

4.6.4 Fugitive PM Collectors and Point Source Emissions

- A. Operational Precautions and Measures
 - I. Maintain baghouses and point source emissions in accordance with air quality permit conditions, and design specifications.
- B. Monitoring
 - 1. Pressure drop readings on magnehelic gauges are monitored daily.
- C. Inspections
 - I. Institute a monthly inspection program to inspect all baghouses and point source emissions.
- D. Preventive Maintenance
 - 1. Institute a preventive maintenance program for all baghouses as described in Section 4.4.

4.6.5 Good Housekeeping

- A. Good Housekeeping Practices
 - I. Implement good housekeeping practices as described in Section 4.3 including:
 - a. Neat and orderly storage of materials, bags and drums .
 - b. Prompt cleanup of material spillage and fugitive PM accumulation (i.e. inside buildings & outdoors) as necessary to minimize outside fugitive PM emissions .
 - c. Recycle collected material from clean-up areas, where possible.
 - d. Ongoing clean-up as necessary to minimize outside fugitive PM emissions.

4.6.6 Monthly Inspections

- A. Inspections
 - I. Institute the monthly inspection program as described in Section 4.4 and Appendix A.

4.6.7 Employee Training

- A. Employee Training
 - 1. Train employees on an annual basis on practices as described in Section 4.2. New employees involved with Plan procedures will be trained on the aspects of the Plan within 90 days of employment.

4.6.8 Recordkeeping

- A. Recordkeeping
 - I. Maintain records including:
 - a. Monitoring and Inspection Records
 - b. Preventive Maintenance for baghouses

c. Training Records

2. Records shall be maintained onsite for five (5) years and made available to the NJDEP upon request.

5.0 FUGITIVE PM MANAGEMENT PROGRAM SCHEDULING AND REPORTING

5.1 Implementation of Plan

The BMPs in this Plan will be implemented to minimize fugitive PM emissions released to the environment. This Plan identifies present and future fugitive PM control measures. In such cases, a schedule is provided, which contains start dates, in Table 5-1.

5.2 Force Majeure

Occasional gaps in the sweeping and inspection programs may occur due to circumstances beyond the reasonable control of the Plant. These circumstances include periods of rain (when there would be no fugitive emissions) or in icy or snowfall conditions.

TABLE 5-1

Georgia-Pacific Gypsum LLC
CAMDEN, NEW JERSEY

FUGITIVE PM MANAGEMENT PLAN

*Implementation Schedule for
Additional or Improved Fugitive PM Control Measures*

REVISED APPENDIX A IMPLEMENTATION

1. Initiate use of inspection form according to Fugitive PM Management Plan. [The Plant reserves the right to make a copy of the inspection form in an electronic format and conduct the monthly inspections in that manner.](#)

Start Date
*within 30 days
of approval*

Appendix A

Worksheet 5- Monthly Inspection Checklist G-P Gypsum Camden, New Jersey						Form last updated January 2018	
<input type="checkbox"/> Dry Weather Inspection			<input type="checkbox"/> Wet Weather Inspection				
Inspected By:			Date:				
Title:							
Item No.	Item	N/A	Y	N	Comments/Resolution of Problems		
Note: For any item answered "N", describe in the right hand column.							
Readily Implementable BMPs – SPCC AREAS					STORMWATER BMP		
SP-1	Are potential spill areas identified in your SPCC plan?				<div style="border: 2px solid black; padding: 10px; color: black; font-weight: bold;"> See proposed Monthly Inspection Checklist at the end of this section (i.e., behind mark-up of Section D of the permit). </div>		
SP-2	Are area specific spill response measures prominently displayed in these areas?						
SP-3	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.						
SP-4	Are adequate supplies of spill response equipment available?						
SP-5	Does the facility have specific spill prevention developed?						
SP-6	Is there a valid SPCC Plan?						
<input checked="" type="checkbox"/> Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____					<input type="checkbox"/> Applicable		
<input checked="" type="checkbox"/> Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____							
Readily Implementable BMPs – GOOD HOUSEKEEPING					STORMWATER BMP		
GH-1	Is Good Housekeeping maintained in all outside areas?						
GH-2	Is Good Housekeeping maintained in all indoor production areas?						
GH-3	Is cleanup conducted immediately after discovery of leaks and spills?						
GH-4	Is careful material storage practiced?						
GH-5	Is equipment operating properly and maintained?						
GH-6	Does the facility maintain an up-to-date material inventory?						
GH-7	Do work areas seem to be well organized?						
GH-8	Must any work area garbage containers be emptied?						
GH-9	Are dry and clean floors being maintained?						
GH-10	Have employees been trained on good housekeeping practices?						
<input checked="" type="checkbox"/> Corrective Action Procedures					<input type="checkbox"/> Not Applicable		
<input checked="" type="checkbox"/> Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____							
<input checked="" type="checkbox"/> Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____							
Site Specific BMPs – STORMWATER DRAINAGE SYSTEM					STORMWATER BMP		
	Are stormwater devices being maintained to eliminate the influx of river water into the facility's stormwater drainage system?						
<input checked="" type="checkbox"/> Corrective Action Procedures							
<input checked="" type="checkbox"/> Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____							
<input checked="" type="checkbox"/> Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____							
Site Specific BMPs – MATERIALS TRACKING					STORMWATER BMP		
	[True (Y) or False (N)]: No visible tracking of the raw and/or processed gypsum material outside the drainage control area or from the facility onto municipal, county or state roads is occurring.						

Appendix A

Corrective Action Procedures Not Applicable				
D -Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
Site Specific BMPs – GYPSUM ROCK BULK STORAGE PILE				STORMWATER BMP
	[True (Y) or False (N)] The Gypsum Rock Bulk Storage Pile is bermed in such a manner as to eliminate stormwater run-th-rough.			<input type="checkbox"/>
Corrective Action Procedures Not Applicable				
D -Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
Site Specific BMPs – CATCH BASIN MAINTENANCE				STORMWATER BMP
	Does each stormwater inlet catch basin have a fabric filter (diaper) installed?			
	[True (Y) or False (N)] Filter fabric must be replaced to ensure maximum sediment and debris removal.			
Corrective Action Procedures D-Not Applicable				
D -Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
Site Specific BMPs – SWEEPING				STORMWATER BMP
	Are outdoor areas of industrial activity swept day and prior to predicted rain events? (Sweeping occurs prior to or during an active, and the sweeping is impractical.)			
Corrective Action Procedures D-Not Applicable				
D -Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
Stormwater BMPs				STORMWATER BMP
	(True (Y) or False (N)): None of the following are exposed to storm water on-site: Section 313 chemicals, treated lumber, coal piles, salt piles, formal or informal landfills. If false, describe which are exposed to storm water.			
	Is rock berm along riverfront intact and in good condition?			
	Is terrain grading preventing sediment from leaving the property?			
	Is paving intact to prevent sediment runoff?			
	Are trash and scrap metal dumpsters regularly picked up?			
	Are areas downstream of drainage outfalls free gypsum, sediment, etc.?			
	If outfalls leaving property are flowing during dry weather (check N/A if none are flowing), is flow due to permitted non-storm water discharge? If not, describe source of flow (for example, groundwater, unpermitted non-storm water discharge, etc.)			<input type="checkbox"/>
Corrective Action Procedures Not Applicable				
D -Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
(INDOORS) ABOVE GROUND MAINTENANCE STORAGE TANKS (Lube Storage & Filtration Room)				STORMWATER SOURCE MATERIAL
TS-1	Are tanks free of excessive rust or other signs of compromised tank integrity?			
TS-3	(True (Y) or False (N)) There is no evidence of re-leakage.			
TS-2	Are all pumps, valves, hoses, piping, etc. intact and operating properly?			
TS-3	Are all pumps and valves closed and/or locked when not in use?			
TS-4	Is the secondary containment system free of cracks, holes, or other breaches?			
TS-5	Is the secondary containment system free of oil?			
LU-1	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.			

Appendix A

~~LU-2~~ Are high-level alarms or indicators in good working order?

(INDOORS) OIL-WATER SEPARATORS (for Air Compressors)

STORMWATER SOURCE MATERIAL

OW-1	Are all pumps and float switches operating properly?			
OW-2	Are oil-water separators clean and free of debris and other substances?			
OW-3	[True (Y) or False (N)]: No oil is being carried over with water.			
OW-4	[True (Y) or False (N)]: No water is being carried over with oil.			
OW-5	[True (Y) or False (N)]: There is no evidence of a release.			
OW-6	Do previous spills in the areas appear to have been adequately addressed?			

Corrective Action Procedures ~~Not Applicable~~

~~Immediate Response~~

~~I~~ Immediately utilizing available personnel. Supervisor initiating corrective action: _____

~~Inspector Recommending Follow-up Actions~~

~~I~~ To be corrected outside of the shift the problem was noted. WO#: _____

(INDOORS) DRUM STORAGE AREAS LOCATIONS INSPECTED:

STORMWATER SOURCE MATERIAL

DS-1	Are all drums stored inside?			
OS-1	Are drums stored on pallets or racks above the ground surface?			
TS-3	[True (Y) or False (N)] There is no evidence of a release.			
DS-3	Are there fewer than 5 total drums that are in active use in the plant?			
DS-4	Are drums intact? If not, describe any leakage.			
DS-5	Are drums stacked or stored according to manufacturer's recommendations?			
DS-6	Are drums closed/sealed when not in use?			
DS-7	Are the contents of each drum clearly labeled?			

See proposed Monthly Inspection Checklist at the end of this section (i.e., behind mark-up of Section D of the permit).

~~Immediate Response~~

~~I~~ Immediately utilizing available personnel. Supervisor initiating corrective action: _____

~~Inspector Recommending Follow-up Action~~

~~I~~ To be corrected outside of the shift the problem was noted. WO#: _____

(INDOORS) SCRAP METAL STORAGE AREA

STORMWATER SOURCE MATERIAL

SM-1	[True (Y) or False (N)]: The dumpster is not full.			
SM-2	If evidence of leak is found (mark N/A if not), is it absent from the ground below? (If spill is present on the ground, report immediately to Environmental Coordinator.)			
SM-3	[True (Y) or False (N)]: Scrap metal (various and dumpsters) is stored inside?			

Corrective Action Procedures ~~Not Applicable~~

~~Immediate Response~~

~~I~~ Immediately utilizing available personnel. Supervisor initiating corrective action: _____

~~Inspector Recommending Follow-up Actions~~

~~I~~ To be corrected outside of the shift the problem was noted. WO#: _____

(INDOORS) UNIVERSAL WASTE STORAGE AREA

STORMWATER SOURCE MATERIAL

HZ-1	Are storage containers free of cracks, rust, excessive deterioration, or other signs of compromised integrity?			
HZ-2	[True (Y) or False (N)]: There is no evidence of a release.			
HZ-3	Are all containers marked, labeled, and dated properly?			
HZ-4	Do all containers remain closed, when not in use?			
HZ-5	Is the storage area properly marked?			
HZ-6	Have all full and accumulated container been shipped/scheduled for shipment?			

Corrective Action Procedures ~~Not Applicable~~

~~Immediate Response~~

~~I~~ Immediately utilizing available personnel. Supervisor initiating corrective action: _____

~~Inspector Recommending Follow-up Actions~~

~~I~~ To be corrected outside of the shift the problem was noted. WO#: _____

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(INDOORS) HAZARDOUS WASTE STORAGE AREA				STORMWATER SOURCE MATERIAL	
HZ-1	Are storage containers free of cracks, rust, excessive deterioration, or other signs of compromised integrity?				
HZ-2	[True (Y) or False (N)] There is no evidence of a release.				
HZ-3	Are all containers marked, labeled, and dated properly?				
HZ-4	Do all containers remain closed, when not in use?				
HZ-5	Is the storage area properly marked?				
HZ-6	Have all full and accumulated container been shipped /scheduled for shipment?				
<p align="center">Corrective Action Procedures D Not Applicable</p> <p>D Immediate Response 1. Immediately utilizing available personnel. Supervisor initiating corrective action: _____</p> <p>D Inspector Recommending Follow-up Actions 1. To be corrected outside of the shift the problem was noted. WO#: _____</p>					
SCRAP METAL STORAGE AREA				STORMWATER SOURCE MATERIAL	
SM-1	[True (Y) or False (N)] The dumpster is not full.				
SM-2	If evidence of leak is found (mark <i>N/A</i> if not), is it absent from the ground below? (If spill is present on the ground, report immediately to Environmental Coordinator.)				
SM-3	[True (Y) or False (N)]: Scrap metal (various and dumpsters) is stored inside?				
<p align="center">Corrective Action Procedures D Not Applicable</p> <p>D Immediate Response 2. Immediately utilizing available personnel. Supervisor initiating corrective action: _____</p> <p>D Inspector Recommending Follow-up Actions 2. To be corrected outside of the shift the problem was noted. WO#: _____</p>					
MOBILE EQUIPMENT REFUELLING (2,500 gallon AST) & GREASE-LOCATIONS INSPECTED:				STORMWATER SOURCE MATERIAL	
TS-2	Are all pumps, valves, hoses, piping, etc. intact and operating properly?				
TS-3	Are all pumps and valves closed and/or locked when not in use?				
TS-4	Is the secondary containment system free of	<div style="background-color: yellow; padding: 10px; border: 1px solid black;"> <p align="center">See proposed Monthly Inspection Checklist at the end of this section (i.e., behind mark-up of Section D of the permit).</p> </div>			
TS-5	Is the secondary containment system and sump				
TS-3	[True (Y) or False (N)]: There is no evidence				
TS-6	Are stormwater releases from containment				
TS-7	Is water in the containment (mark <i>N/A</i> if not)				
LU-1	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.				
LU-2	Is the area free of raw materials, waste materials, debris, and dust?				
LU-3	Are standard loading/unloading procedures prominently posted in the areas?				
LU-4	Are high level alarms or indicators in good working order?				
<p align="center">Corrective Action Procedures D Not Applicable</p> <p>D Immediate Response 1. Immediately utilizing available personnel. Supervisor initiating corrective action: _____</p> <p>D Inspector Recommending Follow-up Actions 1. To be corrected outside of the shift the problem was noted. WO#: _____</p>					
ABOVE GROUND PETROLEUM PRODUCT TANK (38,000 gallon AST)				STORMWATER SOURCE MATERIAL	
TS-2	Are all pumps, valves, hoses, piping, etc. intact and operating properly?				
TS-3	Are all pumps and valves closed and/or locked when not in use?				
TS-4	Is the secondary containment system free of cracks, holes, or other breaches?				
TS-5	Is the secondary containment system and sump free of oil?				
TS-3	[True (Y) or False (N)]: There is no evidence of a release from containment.				
TS-6	Are stormwater releases from containment being properly documented?				
TS-7	Is water in the containment (mark <i>N/A</i> if no water) free of any sheen?				
LU-1	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.				
LU-2	Is the area free of raw materials, waste materials, debris, and dust?				
LU-3	Are standard loading/unloading procedures prominently posted in the areas?				
	Are high level alarms or indicators in good working order?				

Appendix A

Corrective Action Procedures Not Applicable					
D-Immediate Response I-Immediately utilizing available personnel. Supervisor initiating corrective action: _____					
D-Inspector Recommending Follow-up Actions I-To be corrected outside of the shift the problem was noted. WO#: _____					
USED OIL STORAGE TANK				STORMWATER SOURCE MATERIAL	
TS-1	Are tanks and leg supports free of excessive rust or other signs of compromised tank integrity?				
TS-3	[True (Y) or False (N)]: There is no evidence of a release.				
TS-2	Are all pumps, valves, hoses, piping, etc. intact and operating properly?				
TS-3	Are all pumps and valves closed and/or locked when not in use?				
TS-4	Is the secondary containment system free of cracks, holes, or other breaches?				
TS-5	Is the secondary containment system and sump free of oil?				
TS-6	Are stormwater releases from containment being properly documented?				
TS-7	Is water in the containment (mark N/A if no water) free of any sheen?				
LU-1	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.				
LU-2	Are high level alarms or indicators in good working order?				<input type="checkbox"/>
Corrective Action Procedures Not Applicable					
D-Immediate Response I-Immediately utilizing available personnel. Supervisor initiating corrective action: _____					
D-Inspector Recommending Follow-up Actions I-To be corrected outside of the shift the problem was noted. WO#: _____					
ROOF				STORMWATER SOURCE MATERIAL	
RF-1	Is the roof surface intact to prevent sediment runoff?				
RF-2	Is debris/gypsum accumulation removed?				
Corrective Action Procedures Not Applicable					
D-Immediate Response I-Immediately utilizing available personnel. Supervisor initiating corrective action: _____					
D-Inspector Recommending Follow-up Actions I-To be corrected outside of the shift the problem was noted. WO#: _____					
PALLET STORAGE LOCATIONS INSPECTED:				STORMWATER SOURCE MATERIAL	
PT-1	Are pallets intact and stacked neatly to prevent spills?				
PT-2	[True (Y) or False (N)]: All trash is removed.				
PT-3	[True (Y) or False (N)]: No stormwater drains are being blocked by pallets.				<input type="checkbox"/>
Corrective Action Procedures Not Applicable					
D-Immediate Response I-Immediately utilizing available personnel. Supervisor initiating corrective action: _____					
D-Inspector Recommending Follow-up Actions I-To be corrected outside of the shift the problem was noted. WO#: _____					
STEELE FEEDER/BELT CONVEYOR AREAS				STORMWATER SOURCE MATERIAL	
CO-1	Are drainage pathways at the site free of evidence of soil erosion?				
CO-2	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.				
CO-3	Is barrier around Steele Feeder adequate to prevent runoff?				
Corrective Action Procedures Not Applicable					
D-Immediate Response I-Immediately utilizing available personnel. Supervisor initiating corrective action: _____					
D-Inspector Recommending Follow-up Actions I-To be corrected outside of the shift the problem was noted. WO#: _____					
RAILCAR UNLOADING OPERATIONS				STORMWATER SOURCE MATERIAL	
RA-1	[True (Y) or False (N)]: All railcar debris is removed from Front Street fence.				
RA-2	[True (Y) or False (N)]: All railcar debris is removed from pavement surface.				
RA-3	[True (Y) or False (N)]: All railcar debris is removed from secondary containment area.				

Appendix A

Corrective Action Procedures <input type="checkbox"/> Not Applicable					
D-Immediate Response I. — Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. — To be corrected outside of the shift the problem was noted. WO#: _____					
LOADING DOCKS/SHIPPING BAYS (Indoor Trench Drains and Storm Drain)					STORMWATER SOURCE MATERIAL
DO-1	[True (Y) or False (N)]: All debris is removed from Loading Bays.				
DO-2	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.				
Corrective Action Procedures D Not Applicable					
D-Immediate Response I. — Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. — To be corrected outside of the shift the problem was noted. WO#: _____					
GYPCRETE UNLOADING AREA (Indoor Storm Drain)					STORMWATER SOURCE MATERIAL
GY-1	[True (Y) or False (N)]: All debris is removed from Loading Bays.				
GY-2	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.				
Corrective Action Procedures D Not Applicable					
D-Immediate Response I. — Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. — To be corrected outside of the shift the problem was noted. WO#: _____					
See proposed Monthly Inspection Checklist at the end of this section (i.e., behind mark-up of Section D of the permit).					
BULK MATERIAL LOADING/UNLOADING (Cement, Densite® Railcar)					STORMWATER SOURCE MATERIAL
BU-1	Are all valves closed and/or locked when not in use?				
BU-2	[True (Y) or False (N)]: There is no evidence of a release from trucks.				
BU-3	Do previous spills in the areas appear to have been adequately addressed? If not, describe and list the outfalls that the areas drain to.				
BU-4	Is the area free of raw materials, waste materials, debris, and dust?				
BU-5	Are standard loading/unloading procedures prominently posted in the areas?				
BU-6	If there is a local drain (check N/A if none), is it free from obstructions?				
BU-7	Is bulk loading equipment in good working order?				<input type="checkbox"/>
Corrective Action Procedures Not Applicable					
D-Immediate Response I. — Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. — To be corrected outside of the shift the problem was noted. WO#: _____					
TRANSFORMERS (Electrical Substation & Yard Transformer)					STORMWATER SOURCE MATERIAL
XF-1	Are all transformers intact and free of leaking oil?				
XF-2	If evidence of leak is found (mark N/A if not), is it absent from the concrete pad or the ground below? (If spill is present on the pad or ground, report immediately to Environmental Coordinator.)				
Corrective Action Procedures D Not Applicable					
D-Immediate Response I. — Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. — To be corrected outside of the shift the problem was noted. WO#: _____					
EROSION PRONE AREAS (along riverfront)					STORMWATER SOURCE MATERIAL
ER-1	Are drainage pathways at the site free of evidence of soil erosion?				
ER-2	Are ditches and ponds onsite free of significant depths of sediment?				
ER-3	If sediment controls (e.g. silt fences, rock rip rap, seeding, hay bales, etc.) are used onsite (check N/A if not), are they in good shape and operating properly?				
ER-4	Does all sediment remain on-site? If not, explain what erosion control measures could help prevent it from leaving the site.				
ER-5	Is the material pile bermed in such a manner as to eliminate stormwater runoff?				

Appendix A

Corrective Action Procedures <input type="checkbox"/> Not Applicable				
D-Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
GENERAL TRASH STORAGE AREA (various small dumpsters)			STORMWATER SOURCE MATERIAL	
XF-1	[True (Y) or False (N)] The dumpsters are not full.			
XF-2	[evidence of leak is found (mark N/A if not), is it absent from the ground below? (If spill is present on the ground, contain it and report immediately to Environmental Coordinator.)			
Corrective Action Procedures D Not Applicable				
D-Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
TRASH COMPACTOR			STORMWATER SOURCE MATERIAL	
	Do previous spills in the areas appear to have been adequately addressed?			
	(True (Y) or False (N)): The dumpsters are not full.			
	If evidence of leak is found (mark N/A if not), is it absent from the ground below? (If spill is present on the ground, contain it and report immediately to Environmental Coordinator.)			
D-Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____		<div style="border: 2px solid black; padding: 5px; background-color: yellow;"> See proposed Monthly Inspection Checklist at the end of this section (i.e., behind mark-up of Section D of the permit). </div>		
STORAGE AREAS EXPOSED TO STORMWATER			STORMWATER SOURCE MATERIAL	
SA-1	(True (Y) or False (N)): None of the following are exposed to storm water onsite: Section 313 chemicals, treated lumber, coal piles, salt piles, formal or informal landfills. If false, describe which are exposed to storm water.			
SA-2	Are stored materials (gypsum piles, recycle piles, etc.) prevented from reaching inlets, pipes, ditches, or ponds?			
SA-3	[If controls to minimize materials being carried by runoff to drainage ways (e.g., rock berms, screens over inlets, and culverts, etc.) exist onsite (check N/A if not), are they in good shape and operating properly?			<input type="checkbox"/>
Corrective Action Procedures D Not Applicable				
D-Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
MATERIAL STORAGE PILES			TITLE V DUST MANAGEMENT PLAN	
	Are fugitive emissions from ship unloading occurring?			
	Are fugitive emissions from excessive wind/weather disturbances of pile occurring?			
	Are fugitive emissions from removal of material from piles occurring?			
	Is effective housekeeping occurring?			
Corrective Action Procedures D Not Applicable				
D-Immediate Response I. Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D-Inspector Recommending Follow-up Actions I. To be corrected outside of the shift the problem was noted. WO#: _____				
MATERIAL HANDLING			TITLE V DUST MANAGEMENT PLAN	
	Are fugitive emission from loading operations occurring?			
	Are fugitive emissions from transfer operations occurring?			
	Are fugitive emissions from conveying operations occurring?			
	Are fugitive emissions from unloading operations occurring?			
L J	Is housekeeping at material handling occurring?			

Appendix A

Corrective Action Procedures <input checked="" type="checkbox"/> Not Applicable			
D -Immediate Response I—Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I—To be corrected outside of the shift the problem was noted. WO#: _____			
UNPAVED SURFACES		TITLE V DUST MANAGEMENT PLAN	
Are fugitive emissions at unpaved surfaces occurring?			
Is there evidence of housekeeping?			<input checked="" type="checkbox"/>
Corrective Action Procedures <input checked="" type="checkbox"/> Not Applicable			
D -Immediate Response I—Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I—To be corrected outside of the shift the problem was noted. WO#: _____			
PAVED SURFACES		TITLE V DUST MANAGEMENT PLAN	
Is carryout/tracking of mud/dirt from unpaved surfaces present?			
Does dedicated mobile equipment remain on paved surfaces?			
Are wind-blown fugitive emissions being attributed to Georgia-Pacific activities?			
Is there evidence of housekeeping of paved surfaces?			
Corrective Action Procedures <input checked="" type="checkbox"/> Not Applicable			
D -Immediate Response I—Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I—To be corrected outside of the shift the problem was noted. WO#: _____			
GOOD HOUSEKEEPING		TITLE V DUST MANAGEMENT PLAN	
Are storage areas of materials, bags, and drums neat & orderly?			
Is regular cleanup of material spillage, inside and outside of the process building occurring?			
Is sweeping around obstacles in the paved road surface areas being completed (weather permitting)?			
Is training provided to employees about good housekeeping?			
[True (Y) or False (N)]: Monthly inspections of indoor and outdoor plant are completed and identify areas that may require additional attention.			
MONTHLY INSPECTION PROGRAM - GENERAL		TITLE V DUST MANAGEMENT PLAN	
Do these areas have the potential to cause fugitive emissions?			
Material storage & handling areas			
Loading & unloading areas?			
Process areas?			
Control equipment (bin vents/dust collectors)?			
Are the control measures overall effective?			
Generally, are the good housekeeping practices overall effective?			<input checked="" type="checkbox"/>
Corrective Action Procedures <input checked="" type="checkbox"/> Not Applicable			
D -Immediate Response I—Immediately utilizing available personnel. Supervisor initiating corrective action: _____ D -Inspector Recommending Follow-up Actions I—To be corrected outside of the shift the problem was noted. WO#: _____			
PNEUMATIC SYSTEMS (CONTROL EQUIPMENT)		TITLE V DUST MANAGEMENT PLAN	
U2 Kettle 1: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U2 Kettle 2: OK <input type="checkbox"/> FIX <input type="checkbox"/>	U2 Kettle #3: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	
U14 LP Bin #4: OK <input type="checkbox"/> FIX <input type="checkbox"/>	U22 Stueco Reserve Bin #1: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U24 Raymond Mill #1: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U24 Raymond Mill #2: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U26 Portland Cement Bin: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U27 LP Bin #1: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	
U28 LP Bin #2: OK <input type="checkbox"/> FIX <input type="checkbox"/>	U29 LP Bin #3: OK <input type="checkbox"/> FIX <input type="checkbox"/>	U30 Molding Plaster Bin: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U31 Stueco Cooling: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U35 Dense® Bin: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U36 Gyperete Rock Bin: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	
U38 Impact Mill: OK <input type="checkbox"/> FIX <input type="checkbox"/>	U39 Gyperete Screener: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U40 Stueco Reserve Bin #2: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	
U41 Impact Mill Feed Bin: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U— Other: _____: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U— Other: _____: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	
U— Other: _____: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U— Other: _____: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	U— Other: _____: OK <input checked="" type="checkbox"/> FIX <input type="checkbox"/>	
U— Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>	U— Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>	U— Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
PN-1 Are blow pipes or cyclones free of leaks and fugitive emissions?			
Are the tops of cyclones free of visible excess dusting?			

Appendix A

PN-3	Are hi-pressure feeders free of blow-by and not dusting?				
PN-4	[True (Y) or False (N)]: There is not excessive pressure drop across any bag filters. If false, bags may be plugged up and require cleaning.				
PN-5	Are the bag filter clean air discharges free of visible dusting? (Predicts overall effectiveness of control measure.)				
PN-6	Are all inspection doors or covers closed tightly?				
PN-7	Are all rotary seal valves operating properly?				
PN-8	[True (Y) or False (N)]: No collectors and/or filters are known to be bypassed. (if false, report immediately to Environmental Coordinator.)				
<div style="display: flex; justify-content: space-between;"> <div> <p>D-Immediate Response</p> <p>I—Immediately utilizing available personnel. Supervisor initiating corrective action: _____</p> <p>D-Inspector Recommending Follow-up Actions</p> <p>I—To be corrected outside of the shift the problem was noted. WO#:- _____</p> </div> <div> <p style="text-align: center;">Corrective Action Procedures</p> </div> <div> <p>D-Not Applicable</p> </div> </div>					

See proposed Monthly Inspection Checklist at the end of this section (i.e., behind mark-up of Section D of the permit).

GEORGIA-PACIFIC GYPSUM LLC (51611)
BOP190006

Date: 12/4/2019

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Georgia-Pacific Gypsum LLC

Facility ID (AIMS): 51611

Street 1101 SOUTH FRONT ST
Address: 1101 SOUTH FRONT ST
CAMDEN, NJ 08103

Mailing 1101 SOUTH FRONT ST
Address: 1101 SOUTH FRONT ST
CAMDEN, NJ 08103

County: Camden
Location Lat/Long: 39,55,52/75,07,49
Description:

State Plane Coordinates:

X-Coordinate: 1,869,725

Y-Coordinate: 400,039

Units: Feet

Datum: Unknown

Source Org.: Other/Unknown

Source Type: Hard Copy Map

Industry:

Primary SIC: 3275

Secondary SIC:

NAICS: 327420

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Georgia-Pacific Gypsum LLC

Facility ID (AIMS): 51611

Street 1101 SOUTH FRONT ST
Address: 1101 SOUTH FRONT ST
CAMDEN, NJ 08103

Mailing 1101 SOUTH FRONT ST
Address: 1101 SOUTH FRONT ST
CAMDEN, NJ 08103

County: Camden

Location Latitude: 39,55,52 N

Description: Longitude: 75,07,49 W

State Plane Coordinates:

X-Coordinate: 1,869,725

Y-Coordinate: 400,039

Units: Feet

Datum: Unknown

Source Org.: Other/Unknown

Source Type: Hard Copy Map

Industry:

Primary SIC: 3275

Secondary SIC:

NAICS: 327420

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Benjamin Chantz

NJ EIN:

Title: Facility
~~Enviornmental~~ Environmental
Manager

Phone: (856) 536-0725 x

Mailing 1101 South Front Street

Fax: () - x

Address: Camden, NJ 08103

Other: () - x

Type:

Email: benjamin.chantz@gapac.com

Contact Type: Environmental Officer

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Benjamin Chantz

NJ EIN:

Title: Facility
~~Enviornmental~~ Environmental
Manager

Phone: (856) 536-0725 x

Mailing 1101 South Front Street

Fax: () - x

Address: Camden, NJ 08103

Other: () - x

Type:

Email: benjamin.chantz@gapac.com

Contact Type: Fees/Billing Contact

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Kevin Coggins

NJ EIN:

Title: Plant Manager

Phone: (785) 341-1557 x

Mailing 1101 South Front Street

Fax: () - x

Address: Camden, NJ 08103

GEORGIA-PACIFIC GYPSUM LLC (51611)

Date: 11/29/202

Other () - x
BOP190005

Type:

New Jersey Department of Environmental Protection

Email: kocoggin@gapac.com

Facility Profile (General)

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: On-Site Manager

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Kevin Coggins

NJ EIN:

Title: Plant Manager

Phone: (785) 341-1557 x

Mailing 1101 South Front Street

Fax: () - x

Address: Camden, NJ 08103

Other: () - x

Type:

Email: kocoggin@gapac.com

Contact Type: Operator

Organization: Georgia-Pacific, Inc.

Org. Type: Corporation

Name: Georgia-Pacific Gypsum LLC

NJ EIN:

Title:

Phone: () - x

Mailing

Fax: () - x

Address:

Other: () - x

Type:

Email:

Contact Type: Owner (Current Primary)

Organization: Georgia-Pacific, Inc.

Org. Type: Corporation

Name: Georgia-Pacific Gypsum LLC

NJ EIN:

Title:

Phone: () - x

Mailing

Fax: () - x

Address:

Other: () - x

Type:

Email:

GEORGIA-PACIFIC GYPSUM LLC (51611)
BOP190005

Date: 11/29/202

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Responsible Official

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Kevin Coggins

NJ EIN:

Title: Plant Manager

Phone: (785) 341-1557 x

Mailing 1101 South Front Street

Fax: () - x

Address: Camden, NJ 08103

Other: () - x

Type:

Email: kocoggin@gapac.com

New Jersey Department of Environmental Protection
Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NO _x	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1	Plant-Wide Particulate/Dust Fugitive Emissions from Truck Traffic						23.532 10.69	4.592 2.84			
FG2	Storage Pile of Gypsum						1.250 4.51	0.610 2.66			
Total			0.000	0.000	0.000	0.000	24.782 15.20	5.202 5.50	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS2	Heater at knife area 1— Nat. Gas fired (<1 MMBTU/HR max. heat input)	Fuel Combustion Equipment (Other)	Knife Area 1	0.053	0.680	0.290	0.000	0.081	0.081	0.000	0.00000000	
IS3	Heater at knife area 2— Nat. Gas fired (<1 MMBTU/HR max. heat input)	Fuel Combustion Equipment (Other)	Knife Area 2	0.053	0.680	0.290	0.000	0.081	0.081	0.000	0.00000000	
IS4	Heater at knife area 3— Nat. Gas fired (<1 MMBTU/HR max. heat input)	Fuel Combustion Equipment (Other)	Knife Area 3	0.053	0.680	0.290	0.000	0.081	0.081	0.000	0.00000000	
IS5	Machine shop heater - Nat. Gas fired (< 1 MMBTU/HR max. heat input)	Fuel Combustion Equipment (Other)	Machine Shop	0.053 <u>0.01</u>	0.680 <u>0.21</u>	0.290 <u>0.18</u>	0.000 <u>1.29E-3</u>	0.081 <u>4.08E-3</u>	0.081 <u>0.02</u>	0.000 <u>1.07E-6</u>	0.00000000 <u>4.05E-3</u>	
IS6	Space Heaters - 17 units, Nat.Gas fired (each unit < 1 MMBTU/HR max. heat input)	Fuel Combustion Equipment (Other)	Throughout Facility	0.051 <u>0.04</u>	0.680 <u>0.73</u>	0.340 <u>0.61</u>	0.000 <u>4.38E-3</u>	0.085 <u>0.01</u>	0.085 <u>0.06</u>	0.000 <u>3.65E-6</u>	0.00000000 <u>0.01</u>	
IS7	Paper Warmers 1 to 4— Nat.Gas fired (each unit <1 MMBTU/HR max. heat input)	Fuel Combustion Equipment (Other)	Board Production Line	0.016	0.200	0.080	0.000	0.024	0.024	0.000	0.00000000	

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS8	Paper Warmers 5 to 8 — Nat.Gas fired (each unit <1 MMBTU/HR max. heat input)	Fuel Combustion-Equipment (Other)	Board Production Line	0.016	0.200	0.080	0.000	0.024	0.024	0.000	0.00000000	
IS10	Storage/use of non-HAP chemicals in containers (<10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	Storage Vessel	Water Dispersing-Agent located South of Board Production Line	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.00000000	
IS11	Storage/use of non-HAP VOC containing chemicals in containers (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	Storage Vessel	Lube Filtration/Storage Room	0.010 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS13	2,500 gallon Distillate Fuel Oil Storage Tank (< 10,000 gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	Storage Vessel	Heavy Equipment fuel loading area	0.001								

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS14	40,000-gallon Distillate Fuel Oil Storage Tank (>=10,000-gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	Storage Vessel	West of Gold /- Prime containment room	0.017								
IS15	Solid Storage Vessels (each unit < 2,000-cubic feet in storage capacity)	Storage Vessel	Accell BMA Bin, Fiberglass Bin, Old Sugar Bin, Miscellaneous Bin, Vermiculite Bin and Potash Bin Feeder					0.178	0.084			
IS16	Holding Tank storing liquids (< 10,000-gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	Storage Vessel	Holding Tank									
IS17	Prime Paint Tank, 7,800 gallons (< 10,000-gallons, Non-Applicable VOC with vapor pressure < 0.02 psia)	Storage Vessel	Prime Paint Tank									

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS18	Liquid Storage Vessel < 1,000 gallons storage capacity, mixing liquids with vapor pressures < 1.5 psia, less water, in a non-reactive process	Storage Vessel	Mixing Tanks-Throughout the Plant									
IS19	Gyperete Printing Area (<0.5 gal/hr and <2.5 gal/day ink usage per printer)	Other Equipment	Gyperete Printing Area	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS22	Temporary Diesel Generator (<1 MMBtu/hr max heat input, <37 kw)	Stationary Reciprocating Engine	Outside, North Yard	0.030	0.220	0.130	0.022	0.018	0.019	0.000		
IS23	Temporary Storage Silo (<2000 ft^3 capacity)	Storage Vessel	Outside, North Yard	0.000	0.000	0.000	0.000	0.003	0.001	0.000		
IS24	Three (3) Slitters (each slitter <= 50 lb/hr raw material process rate)	Manufacturing and Materials Handling Equipment	Resin Extrusion Process					0.007	0.007			
IS25	Cross Cutter (<= 50 lb/hr raw material process rate)	Manufacturing and Materials Handling Equipment	Resin Extrusion Process					0.000	0.000			
IS26	Four (4) Natural Gas-Fired Space Heaters (0.2 MMBtu/hr each)	Fuel Combustion Equipment (Other)	Space Heaters Venting Outside	0.020	0.3200.34	0.1300.29	0.002	0.010	0.030	0.0001.72E-6	0.01	0.01

GEORGIA-PACIFIC GYPSUM LLC (51611)
BOP190005

Date:11/29/2021

IS27	Bake-Off Oven	Manufacturing and Materials Handling Equipment	Resin Extrusion Process	0.05		0.07					0.01	0.01
IS28	Auto-Winder	Manufacturing and Materials Handling Equipment	Resin Extrusion Process	7.42E-5			2.87E-5	2.87E-5	2.87E-5			
Total				0.379 0.12	4.340 1.29	1.920 1.16	0.024 0.01	0.683 0.02	0.608 0.10	0.000 6.44E-6	0.00000000 0.03	0.000 0.03

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E3	1KH	Kettle #1	Fuel Combustion Equipment (Other)	PCP030006	11/30/1995 <u>1962</u>	No	11/30/1995 <u>2004</u>	
E4	2KF	Kettle #2	Fuel Combustion Equipment (Other)	125995	12/6/1995 <u>1962</u>	No	12/6/1995 <u>1994</u>	
E5	3KF	Kettle #3	Fuel Combustion Equipment (Other)	125994	12/6/1995 <u>1962</u>	No	12/6/1995 <u>1989</u>	
E6	OB1	Office Boiler	Boiler	Gen99-0001	1/1/1968	Yes	5/5/1999	
E8	PWH1	Process Water Heater	Process Heater	125802	11/16/1995	No	11/16/1995	
E9	AFT1	6000gal ST—Alpha Foamer (soap) with ethanol	Storage Vessel	126530	2/2/1996	No	2/2/1996	
E10	ESDC	Board End Saw	Manufacturing and Materials Handling Equipment	034872	11/17/1995	No	11/17/1995	
E11	RD4S	Rotary Rock Dryer	Fuel Combustion Equipment (Other)	073559	9/17/1985	No	9/17/1985	
E12	1C8B	Conveyor #8B—Load Skirt	Manufacturing and Materials Handling Equipment	073559	9/17/1985	No	9/17/1985	
E13	2C8A	Conveyor #8A—Discharge chute	Manufacturing and Materials Handling Equipment	073559	9/17/1985	No	9/17/1985	
E14	LPRB	LP Reserve Bin <u>Landplaster Bin #4</u>	Storage Vessel	126651	<u>1963</u> 3/25/1996	No	10/2/1986	
E15	SSE1	Stucco Supply Elevator	Manufacturing and Materials Handling Equipment	088806	9/9/1986	No	10/13/1988	

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E16	WEDC	Stucco Recirculating Elevator	Manufacturing and Materials Handling Equipment	088806	9/9/1986	No	10/13/1988	
E17	LPA1	Landplaster Pneumatic Conveying Process	Manufacturing and Materials Handling Equipment	GEN000001	11/4/1988	No	11/4/1988	
E18	SMS1	Stucco Mixing Screw Conveyor	Manufacturing and Materials Handling Equipment	125992	11/29/1995	No	11/29/1995	
E19	BPS1	Board Stucco Silo #1	Storage Vessel	125807	11/22/1995	No	11/22/1995	
E20	BPS2	Board Stucco Silo #2	Storage Vessel	Log No. 01955680	11/22/1995	No	11/22/1995	
E21	441C	441 Screw Conveyor	Manufacturing and Materials Handling Equipment	125993	11/22/1995	No	11/22/1995	
E22	SRB1	Stucco Reserve Bin #1	Storage Vessel	125806	11/22/1995	No	11/22/1995	
E23	PMV1	Pin Mixer	Manufacturing and Materials Handling Equipment	097652	7/13/1990	No	7/13/1990	
E24	RM1	60 inch Raymond Mill #1	Fuel Combustion Equipment (Other)	103862	7/23/1991	No	7/23/1991	
E25	RM2	60 inch Raymond Mill #2	Fuel Combustion Equipment (Other)	118644	5/20/1994	No	5/20/1994	
E26	4RB	Portland Cement Bin	Manufacturing and Materials Handling Equipment	111023/980008	4/17/1998	No	10/16/1998	

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E27	LPB1	Landplaster Bin #1	Storage Vessel	125803	11/9/1995	No	11/9/1995	
E28	LPB2	Landplaster Bin #2	Storage Vessel	125804	11/9/1995	No	11/9/1995	
E29	LPB3	Landplaster bin #3	Storage Vessel	125805	11/9/1995	No	11/9/1995	
E30	SRB3-MPB	Stucco Reserve Bin #3 - Molding Plaster Bin	Storage Vessel	125801	11/22/1995	No	11/22/1995	
E31	SC-#1EDS	Stucco Cooling - #1 Elevator Discharge Screw	Manufacturing and Materials Handling Equipment	128598	12/1/1992	No	12/1/1992	
E32	SC-#1CS	Stucco Cooling - #1Collecting Screw	Manufacturing and Materials Handling Equipment	128598	12/1/1992	No	12/1/1992	
E33	SC-#1XS	Stucco Cooling - #1Cross Screw	Manufacturing and Materials Handling Equipment	128598	12/1/1992	No	12/1/1992	
E34	SC-#2EDS	Stucco Cooling - #2 Elevator Discharge Screw	Manufacturing and Materials Handling Equipment	128598	12/1/1992	No	12/1/1992	
E35	SC-#2CS	Stucco Cooling - #2 Collecting Screw	Manufacturing and Materials Handling Equipment	128598	12/1/1992	No	12/1/1992	
E36	SC-#2XS	Stucco Cooling - #2 Cross Screw	Manufacturing and Materials Handling Equipment	128598	12/1/1992	No	12/1/1992	
E37	SC#430SC	Stucco Cooling - #430 Screw Conveyor	Manufacturing and Materials Handling Equipment	128598	12/1/1992	No	12/1/1992	

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E38	LPLS	Bulk landplaster loading spout	Manufacturing and Materials Handling Equipment	126651	3/25/1996	No	3/25/1996	
E40	RF	Reclaim Feeder	Manufacturing and Materials Handling Equipment	127067	4/1/1996	No	4/1/1996	
E42	DCB	Dens Cat Alpha Bin	Manufacturing and Materials Handling Equipment	980001	10/28/1998	No	10/28/1998	
E43	BP	Bag Packer	Manufacturing and Materials Handling Equipment	980002	10/16/1998	No	10/16/1998	
E44	BPBW	Bulk Plaster Blender and Weigher	Manufacturing and Materials Handling Equipment	980002	10/16/1998	No	10/16/1998	
E45	RBT1	#1 Rock Bin Transfer - 11 Belt	Manufacturing and Materials Handling Equipment	980002	5/1/1984	No	10/16/1998	
E46	RBT2	#2 Rock Bin Transfer - 11 Belt	Manufacturing and Materials Handling Equipment	980002	5/1/1984	No	10/16/1998	
E47	RBTB	Rock Transfer - 10 Belt to 11 Belt	Manufacturing and Materials Handling Equipment	980002	5/1/1984	No	10/16/1998	
E48	LPB4	Landplaster Bin #4—Board plant LP bin	Storage Vessel	980005	10/16/1998	No	10/16/1998	

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E49	IM#1	Impact Mill #1	Manufacturing and Materials Handling Equipment	980003	10/16/1998	No	10/16/1998	
E50	IMS	Impact Mill Screen	Manufacturing and Materials Handling Equipment	980004	10/16/1998	No	10/16/1998	
E51	SRB2	Stucco Reserve Bin #2	Storage Vessel	980006	10/16/1998 1962	No	10/16/1998	
E52	IMFB	Impact Mill Feed Bin	Storage Vessel	980007	10/16/1998 1962	No	10/16/1998	
E53	BM1	Ball Mill 1	Manufacturing and Materials Handling Equipment	PCP000001	1/1/1989	No	1/1/1989	
E54	BM2	Ball Mill 2	Manufacturing and Materials Handling Equipment	PCP000001	1/1/1989	No	1/1/1989	
E55	BM3	Ball Mill 3	Manufacturing and Materials Handling Equipment	PCP000001	1/1/1989	No	1/1/1989	
E56	BM4	Ball Mill 4	Manufacturing and Materials Handling Equipment	PCP000001	1/1/1996	No	1/1/1996	
E57	BSHE	Bulk Stucco Handling Elevator	Manufacturing and Materials Handling Equipment	128598	3/25/1996	No	3/25/1996	

New Jersey Department of Environmental Protection
Equipment Inventory

E58	BSHS	Bulk Stucco Handling Sifter	Manufacturing and Materials Handling Equipment	128598	3/25/2020 <u>22</u>	No		
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**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E59	DAE	Dry Additives Elevator	Manufacturing and Materials Handling Equipment	BOP990001	1/1/1968	Yes	1/1/1968	
E60	IMFBE	Impact Mill Feed Bin Elevator	Manufacturing and Materials Handling Equipment	BOP990001	1/1/1968	Yes	1/1/1968	
E61	MPBE	Moulding Plaster Bin Elevator	Manufacturing and Materials Handling Equipment	BOP990001	1/1/1968	Yes	1/1/1968	
E65	3C8A	Conveyor #8A—Load Skirt	Manufacturing and Materials Handling Equipment	073559	9/17/1985	No	9/17/1985	
E66	SSS	Stucco Scalping Screw	Manufacturing and Materials Handling Equipment	PCP000003	9/9/1986	No		
E67	SWBF	Stucco Weigh Belt Feeder	Manufacturing and Materials Handling Equipment	PCP000003	9/9/1986	No		
E68	Wet End Vac	Wet End Central Vacuum System	Manufacturing and Materials Handling Equipment	PCP030007	10/26/2001	No		
E70	IM#2	Impact Mill #2	Manufacturing and Materials Handling Equipment	PCP030001	4/16/2003	No		
E71	BSLS	Bulk Stucco Loading Spout	Manufacturing and Materials Handling Equipment	128598	9/6/1996 1994	No	9/6/1996	

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E75	reject bin	Reject Bin	Manufacturing and Materials Handling Equipment	PCP050001	7/21/2005	No		
E102	Bag Packer 2	Bag Packer 2	Manufacturing and Materials Handling Equipment	BOP090001	10/16/1998	No		
E103	Supersac	Supersac Loading	Manufacturing and Materials Handling Equipment	BOP190005	11/1/2019 2022			
E104	Reclaim Conv	Reclaim Belt Conveyor	Manufacturing and Materials Handling Equipment	BOP090001	1/1/1985	No		
E106	Barrel Separ	Barrel Separator	Manufacturing and Materials Handling Equipment	BOP090001	1/15/1989	No		
E107	#7 Belt	Transfer from #6 (Crumb) Belt to #7 Belt #7 Belt in Crusher-Building	Manufacturing and Materials Handling Equipment	BOP090001	1/15/1962	Yes		
E108	#8 Belt	Transfer from #7 Belt to #8 Belt #8 Belt in Crusher-Building	Manufacturing and Materials Handling Equipment	BOP090001	1/15/1962	Yes		
E109	#9 Belt	Transfer from #8 Belt to Wobbler Separator #9 Belt in Transfer-Tower	Manufacturing and Materials Handling Equipment	BOP090001	1/15/1962	Yes		
E110	Main Crusher	Transfer from Gyratory Crusher or Wobbler Separator or Reclaim Belt to	Manufacturing and Materials Handling Equipment	BOP090001	1/15/1962	Yes		

GEORGIA-PACIFIC GYPSUM LLC (51611)
BOP190005

Date: 11/29/2021

New Jersey Department of Environmental Protection
Equipment Inventory

		#9 Belt Main Crusher in Crusher Building						
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**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E111	Wobbler	Transfer from #9 Belt to #10 Belt Wobbler Separator in Crusher Building	Manufacturing and Materials Handling Equipment	BOP090001	1/15/1962 4/4/1988	No		
E112	Auger #1	Cement Discharge Auger	Manufacturing and Materials Handling Equipment	BOP160001	9/19/2016	No		
E113	Hopper	Feed Hopper	Manufacturing and Materials Handling Equipment	BOP160002	3/1/2017	No		
E114	Delump-Augur	Delumper/Discharge Auger	Manufacturing and Materials Handling Equipment	BOP160002	3/1/2017	No		
E115	VacuumLoader	Vacuum Loader	Manufacturing and Materials Handling Equipment	BOP170002	2/1/2018			
E116	HopperDryer	Hopper Dryer	Manufacturing and Materials Handling Equipment	BOP170002	2/1/2018			
E117	PigmentFeed1	Pigment Feeder 1	Manufacturing and Materials Handling Equipment	BOP170002	2/1/2018			
E118	PigmentFeed2	Pigment Feeder 2	Manufacturing and Materials Handling Equipment	BOP170002	2/1/2018			
E119	ResinExtrude	Resin Extruder	Manufacturing and Materials Handling Equipment	BOP170002	2/1/2018			

GEORGIA-PACIFIC GYPSUM LLC (51611)
BOP190005

Date: 11/29/2021

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E120	Cooling Sys	Cooling Tower/Water Tank	Other Equipment	BOP170002	2/1/2018			
E121	PP Silo	Polypropylene Pellet Silo	Storage Vessel	BOP190005	11/1/2019			

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E3 (Fuel Combustion Equipment (Other))
Print Date: 9/8/2020

Make:	Calcining Kettle
Manufacturer:	The J.B. Ehram & Sons Manufacturing Co.
Model:	10 X 13 ft
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	14.00
Type of Heat Exchange:	Indirect
Equipment Type Description:	Burner: Hauck/BBC2106

Have you attached a diagram showing the location and/or the configuration of this equipment?

☐ Yes
☒ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes
☒ No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O₂ in addition to lbs/hr and tons/yr.

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E4 (Fuel Combustion Equipment (Other))
Print Date: 9/8/2020

Make:	Calcining Kettle
Manufacturer:	The J.B. Ehram & Sons Manufacturing Co.
Model:	10 X 13 ft
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	14.00
Type of Heat Exchange:	Indirect
Equipment Type Description:	Burner: T-Thermal Co./LV- Vortex

Have you attached a diagram showing the location and/or the configuration of this equipment?

☐ Yes
☒ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes
☒ No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O₂ in addition to lbs/hr and tons/yr.

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E5 (Fuel Combustion Equipment (Other))
Print Date: 9/8/2020

Make:	Calcining Kettle
Manufacturer:	The J.B. Ehram & Sons Manufacturing Co.
Model:	10 X 13 ft
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	14.00
Type of Heat Exchange:	Indirect
Equipment Type Description:	Burner: T-Thermal Co./LV- Vortex

Have you attached a diagram showing the location and/or the configuration of this equipment?

☐ Yes
☒ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes
☒ No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O₂ in addition to lbs/hr and tons/yr.

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E6 (Boiler)

Print Date: 9/8/2020

Make:	<input type="text" value="Weil McClain"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text" value="BHO-40-10"/>
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	<input type="text" value="2.50"/>
Boiler Type:	<input type="text"/>
Utility Type:	<input type="text" value="Non-Utility"/>
Output Type:	<input type="text"/>
Steam Output (lb/hr):	<input type="text"/>
Fuel Firing Method:	<input type="text"/>
Description (if other):	<input type="text"/>
Draft Type:	<input type="text"/>
Heat Exchange Type:	<input type="text"/>

Is the boiler using? (check all that apply):

Low NOx Burner:	<input type="checkbox"/>	Type: <input type="text"/>
Staged Air Combustion:	<input type="checkbox"/>	
Flue Gas Recirculation (FGR):	<input type="checkbox"/>	Amount (%): <input type="text"/>

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Comments:

Make:	COE multi-deck kiln
Manufacturer:	Hauck
Model:	Beta BBC or BBG
Equipment Type Description:	Board Dryer – 4 heating zones
Maximum Rated Gross Heat Input (MMBtu/hr):	75
Type of Heat Exchange:	direct fire
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	none

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7% O₂ in addition to lbs/hr and tons/yr.

51611-GEORGIA-PACIFIC-GYPSUM-LLC-BOP190005-E8-(Process-Heater)
Print Date: 9/8/2020

Make: Columbia

Manufacturer: Columbia

Model: CWH-5010

Equipment Type-Description: PROCESS-WATER-HEATER

Maximum Rated Gross Heat Input (MMBtu/hr): 1.68

Draft Type:

Firing Method:

Is the Process Heater using?

Low-NOx Burner

Type of Low NOx Burner:

Flue Gas Recirculation (FGR)

Have you attached a diagram showing the location and/or configuration of this equipment?

Have you attached any manufacturer's data or specifications which may aid in the review of this application?

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E9 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

6,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

No

Exposed to Sunlight?
Shell Color:

Description (if other):

Shell Condition:

Good

Paint Condition:

Shell Construction:

No

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof
Bottom) (ft):

20.00

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

7.00

Description:

Value:

Units:

Fill Method:



Description (if other):

Maximum Design Fill Rate:

Top Pipe

Units:

Does the storage vessel have
a roof or an open top?

60.00

Roof Type:

gal/min

Roof Height (From Roof
Bottom
to Roof Top) (ft):
Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

51611-GEORGIA-PACIFIC GYPSUM LLC-BOP190005-E9 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

**51611 GEORGIA-PACIFIC GYPSUM LLC - BOP190005 E10 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020**

Make:	Dual Head Wallboard Stripping Machine
Manufacturer:	The Brackett Stripping Machine Company
Model:	W
Type of Manufacturing and Materials Handling Equipment:	Board end saw
Capacity:	6.00E+02
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Make:	Rotary-Rock-Dryer
Manufacturer:	
Model:	
Equipment Type Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	25.5
Type of Heat Exchange:	Direct Fire
Have you attached a diagram showing the location and/or configuration of this equipment?	
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7% O2 in addition to lbs/hr and tons/yr.

51611 GEORGIA-PACIFIC GYPSUM LLC-BOP190005 E12 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	Conveyor--Load Skirt
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	conveyor
Capacity:	3.50E+05
Units:	other units
Description (if other):	lb/hour
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

**51611 GEORGIA-PACIFIC GYPSUM LLC-BOP190005 E13 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020**

Make:	Conveyor-Discharge chute
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	conveyor
Capacity:	3.50E+05
Units:	other units
Description (if other):	lb/hour
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E14 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have
a roof or an open top?

Roof Type:

Roof Height (From Roof
Bottom
to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Solids Only

Bin

100

tons

Above Ground

Cylindrical

40.00

15.00

ft³/min

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E14 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC-BOP190005 E15 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Stucco supply elevator"/>
Capacity:	<input type="text" value="1.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hour"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC-BOP190005 E16 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Stucco-recirculating elevator"/>
Capacity:	<input type="text" value="8.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hour"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E17 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="pneumatic conveyor"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E18 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Stucco-mixing-screw
Capacity:	7.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E19 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Solids-Only

Storage Vessel Type:

Silo

Design Capacity:

330

Units:

tons

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?
Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof
Bottom) (ft):

54.00

Length (ft):

Width (ft):

Diameter (ft):

18.50

Other Dimension

Description:

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

90,000.00

Units:

Does the storage vessel have
a roof or an open top?

Roof Type:

Roof Height (From Roof
Bottom
to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

51611-GEORGIA-PACIFIC-GYPSUM-LLC-BOP190005-E19 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E20 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Solids-Only

Storage Vessel Type:

Silo

Design Capacity:

330

Units:

tons

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?
Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

ft³/minDoes the storage vessel have
a roof or an open top?

Roof Type:

Roof Height (From Roof
Bottom
to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E20 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

**51611 GEORGIA-PACIFIC GYPSUM LLC - BOP190005 E21 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="screw conveyor"/>
Capacity:	<input type="text" value="1.20E+05"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text"/>

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E22 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have
a roof or an open top?

Roof Type:

Roof Height (From Roof
Bottom
to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Solids Only

Bin

82400

tons

Above Ground

Cylindrical

ft³/min

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E22 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC - BOP190005 E23 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Gypsum mixing"/>
Capacity:	<input type="text" value="7.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="No"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text"/>

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E24 (Fuel Combustion Equipment (Other))
Print Date: 9/8/2020

Make:	
Manufacturer:	Raymond
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	5.00
Type of Heat Exchange:	Direct
Equipment Type Description:	Crushing & Grinding Gypsum Rock, 5.40E+04 lb/hr

Have you attached a diagram showing the location and/or the configuration of this equipment?

☒ Yes
☐ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes
☒ No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O₂ in addition to lbs/hr and tons/yr.

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E25 (Fuel Combustion Equipment (Other))
Print Date: 9/8/2020

Make:	
Manufacturer:	Raymond
Model:	
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	5.00
Type of Heat Exchange:	Direct
Equipment Type Description:	Crushing & Grinding Gypsum Rock, 5.40E+04 lb/hr

Have you attached a diagram showing the location and/or the configuration of this equipment?

☒ Yes
☐ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes
☒ No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E26 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Bin"/>
Capacity:	<input type="text" value="5.51E+01"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="tons"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E27 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Solids Only

Bin

110

tons

Above Ground

Cylindrical

ft³/min

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E27 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E28 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E28 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E29 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Solids Only

Bin

110

tons

Above Ground

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E29 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E30 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have
a roof or an open top?

Roof Type:

Roof Height (From Roof
Bottom
to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Solids Only

Bin

40098

tons

Above Ground

Cylindrical

19.00

18.50

Top Pipe

40,000.00

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E30 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

Max. fill rate = 40,000 lb/hr

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E31 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

Elevator discharge screw conveyor-14"

Capacity:

120.0009.00E+04

Units:

other units

Description (if other):

lb/hr

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

No

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E32 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Collecting screw conveyor
Capacity:	120.0009.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E33 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

Cross screw conveyor-14"

Capacity:

120.0009.00E+04

Units:

other units

Description (if other):

lb/hr

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

No

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E34 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Elevator discharge screw conveyor
Capacity:	120.0009.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E35 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Collecting screw conveyor-14"
Capacity:	120.0009.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E36 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Cross screw conveyor-14"
Capacity:	120.0009.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E37 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

screw conveyor-14"

Capacity:

120.0009.00E+04

Units:

other units

Description (if other):

lb/hr

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

No

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E38 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Landplaster Bulk loading"/>
Capacity:	<input type="text" value="150.0007.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lbs/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E40 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

Capacity:

Units:

Description (if other):

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

Crusher for grinding wallboard for recycling

1.00E+04

other units

lb/hr

No

No

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E42 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

Bin

Capacity:

255.50E+01

Units:

other units

Description (if other):

Tons/lr

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

No

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E43 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Bag Packer
Capacity:	2.00E+04
Units:	other units ▼
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E44 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

Gypsum plaster weighing and blending

Capacity:

60.0002.00E+04

Units:

other units

Description (if other):

lb/hr

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

No

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E45 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

Capacity:

Units:

Description (if other):

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

Filling gypsum rock bin

2.80E+05

other units	▼
-------------	---

lb/hr

No	▼
----	---

No	▼
----	---

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E46 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

Capacity:

Units:

Description (if other):

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

Filling gypsum rock bin
2.80E+05
other units ▼
lb/hr

No ▼

No ▼

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E47 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials
Handling Equipment:

Capacity:

Units:

Description (if other):

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

Filling gypsum rock bin

2.80E+05

other units	▼
-------------	---

lb/hr

No	▼
----	---

No	▼
----	---

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E48 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Solids-Only

Storage Vessel Type:

Bin

Design Capacity:

40

Units:

tons

Ground Location:

Above Ground

Is the Shell of the Equipment

☐Exposed to Sunlight?
Shell Color:☐

Description (if other):

Shell Condition:

☐

Paint Condition:

☐

Shell Construction:

☐

Is the Shell Insulated?

☐

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

☐

Description (if other):

Maximum Design Fill Rate:

Units:

ft³/minDoes the storage vessel have
a roof or an open top?☐

Roof Type:

☐Roof Height (From Roof
Bottom to Roof Top) (ft):

Roof Construction:

☐

Primary Seal Type:

☐

Secondary Seal Type:

☐

Total Number of Seals:

Roof Support:

☐Does the storage vessel
have a Vapor Return Loop?☐

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E48 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E49 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Impact Mill
Manufacturer:	Entoleter
Model:	544
Type of Manufacturing and Materials Handling Equipment:	Impact mill
Capacity:	50.0002.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E50 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Stucco screen
Capacity:	50.0002.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E51 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation
[(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof
Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have
a roof or an open top?

Roof Type:

Roof Height (From Roof
Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel
have a Vapor Return Loop?

Solids Only

Bin

40095

tons

Above Ground



Cylindrical



51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E51 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E52 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Solids Only

Bin

Above Ground

Cylindrical

ft³/min

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E52 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E53 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="gypsum mill grinder"/>
Capacity:	<input type="text" value="4.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E54 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="gypsum mill grinder"/>
Capacity:	<input type="text" value="4.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E55 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="gypsum mill grinder"/>
Capacity:	<input type="text" value="4.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E56 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="gypsum mill grinder"/>
Capacity:	<input type="text" value="4.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E57 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Custom
Manufacturer:	Custom
Model:	Martin C85-14 equivalent
Type of Manufacturing and Materials Handling Equipment:	non-metallic minerals
Capacity:	505.45E+02
Units:	other units
Description (if other):	CFHton/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E58 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	KEK Centrifugal Sifting Machine
Manufacturer:	Kemutec
Model:	K1350
Type of Manufacturing and Materials Handling Equipment:	non-metallic minerals
Capacity:	5.00E+04100.000
Units:	other units ▼
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E59 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Dry additive elevator"/>
Capacity:	<input type="text" value="1.00E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E60 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Martin
Manufacturer:	Martin
Model:	C85-105
Type of Manufacturing and Materials Handling Equipment:	Feed bin elevator
Capacity:	40.0002.00E+04
Units:	other units ▼
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E61 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Bin elevator
Capacity:	4.00E+04
Units:	other units ▼
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	This elevator was a grandfathered piece of equipment. The capacity was assumed to be the same as the Stucco Reserve Bin #3 fill rate.

Make:	Diagraph
Manufacturer:	Diagraph
Model:	
Type of Press:	Screen
Does this Press use Fountain Solution?	no
Maximum Consumption of Fountain Solution (gal/yr):	na
Density of VOC in the Fountain Solution (lbs/gal):	na
Maximum % volume of VOC as Applied in the Fountain Solution:	na
Maximum % Volume of Water in the Fountain Solution:	na
Maximum Temperature of the Fountain Solution (deg F):	na
Solution Used for Cleaning the Press:	na
Maximum Cleaning Solution used in any one hour (gal/hr):	na
Maximum Cleaning Solution used in a year (gal/yr):	na
Density of VOC in the Cleaning Solution (lbs/gal):	na
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	
Comments:	

**51611 GEORGIA-PACIFIC GYPSUM LLC-BOP190005-E65 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020**

Make:	Conveyor--Load Skirt
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	conveyor
Capacity:	3.50E+05
Units:	other units
Description (if other):	lb/hour
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC-BOP190005-E66 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Stucco Scalping Screw
Capacity:	1.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC-BOP190005-E67 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Stucco weigh belt feeder"/>
Capacity:	<input type="text" value="1.00E+04"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC-BOP190005-E68 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	Series-20
Manufacturer:	New York Blower
Model:	364 DH Arr. 9
Type of Manufacturing and Materials Handling Equipment:	Vacuum System
Capacity:	1.00E+04
Units:	other units
Description (if other):	cfm
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Maximum wet gypsum board process rate is 1600 lb/min

Make:	Size 33 AcoustalFoil
Manufacturer:	New York Blower
Model:	33-PLR Class-IV, Arr-1
Equipment Type:	Centrifugal Blower and Ductwork
Capacity:	30000
Units:	cfm
Have you attached a diagram showing the location and/or configuration of this equipment?	no
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E70 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Impact Mill
Manufacturer:	Entoleter
Model:	544
Type of Manufacturing and Materials Handling Equipment:	Impact mill
Capacity:	50.0002.00E+04
Units:	other units ▼
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E71 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	bulk stucco loading
Capacity:	100.0002.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E75 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Not Available
Manufacturer:	Not Available
Model:	Not Available
Type of Manufacturing and Materials Handling Equipment:	Storage Bin
Capacity:	3.00E+0160
Units:	other units ▼
Description (if other):	Tons/ hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E101 (Surface Coating Equipment (Non-Fabric Material))
Print Date: 9/8/2020

Make:-	Curtain Coater
Manufacturer:-	
Model:-	
	Other <input type="button" value="v"/> Spray Type: <input type="button" value="v"/>
Method of Application:-	Flow Coater
Description:	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div>Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div> <div><input type="radio"/> Yes</div> <div><input checked="" type="radio"/> No</div>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E102 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Bag Packer 2
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	GypcreteUnderlayment
Capacity:	2.00E+04
Units:	other units
Description (if other):	lb/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E103 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	NBE Bulk Filling System
Manufacturer:	National Bulk Equipment
Model:	
Type of Manufacturing and Materials Handling Equipment:	Bulk Bag Packer
Capacity:	6.00E+04
Units:	other units ▼
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E104 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Reclaim Belt Conveyor
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	
Capacity:	5.00E+01
Units:	other units ▼
Description (if other):	tons/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E106 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Barrel Separator
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	stucco
Capacity:	6.00E+01
Units:	other units
Description (if other):	tons/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Unit is to remove waste from the stucco, ie metal, paper, trash.

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E107 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	#7 Belt Transfer from #6 (Crumb) Belt to #7 Belt
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Non-metallic minerals
Capacity:	1.75E+02
Units:	other units
Description (if other):	tons/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E108 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	<div>#8 BeltTransfer from #7 Belt to #8 Belt</div>
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	<div>Non-metallic minerals</div>
Capacity:	<div>1.75E+02</div>
Units:	<div>other units</div>
Description (if other):	<div>tons/hr</div>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div>Yes</div>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<div>No</div>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E109 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	<div>#9 BeltTransfer from #9 Belt to #10 Bel</div>
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	<div>Non-metallic minerals</div>
Capacity:	<div>1.75E+02</div>
Units:	<div>other units</div>
Description (if other):	<div>tons/hr</div>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div>Yes</div>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<div>No</div>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E110 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	<div>Main-CrusherTransfer from Gyratory Crusher or Wobbler Separator or Reclaim Belt to #9 Belt</div>
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	<div>Non-metallic minerals</div>
Capacity:	<div>1.75E+02</div>
Units:	<div>other units</div>
Description (if other):	<div>tons/hr</div>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<div>Yes</div>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<div>No</div>
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E111 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Wobbler Separator Transfer from #8 Belt to Wobbler Separator
Manufacturer:	
Model:	
Type of Manufacturing and Materials Handling Equipment:	Non-metallic minerals
Capacity:	1.75E+02
Units:	other units ▼
Description (if other):	tons/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E412 (Manufacturing and Materials Handling Equipment)-
Print Date: 9/8/2020

Make:	Hydraulic System
Manufacturer:	Posi-Shell
Model:	HS 50T
Type of Manufacturing and Materials Handling Equipment:	Portland Cement
Capacity:	1.00E+01
Units:	other units
Description (if other):	ton/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	The Hydraulic System consists of 7" Horizonatal Auger and 9" Diagonal auger which will deliver 10 tons of Portland Cement per hour to the landfill pick up point.

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E113 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Crushers
Manufacturer:	DeLumper
Model:	L-Series
Type of Manufacturing and Materials Handling Equipment:	Hopper
Capacity:	4.31E+00
Units:	other units ▼
Description (if other):	tons/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E114 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Crushers
Manufacturer:	DeLumper
Model:	L-Series
Type of Manufacturing and Materials Handling Equipment:	Discharge
Capacity:	4.31E+00
Units:	other units
Description (if other):	tons/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E115 (Manufacturing and Materials Handling Equipment)**Print Date: 9/8/2020**

Make:	Vacuum Loader
Manufacturer:	Shini Plastics Technologies, Inc.
Model:	SAL-800G
Type of Manufacturing and Materials Handling Equipment:	Vacuum Loader
Capacity:	1.32E+03
Units:	other units ▼
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E116 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Hopper Dryer
Manufacturer:	Shini Plastics Technologies, INC.
Model:	SHD-150-GB
Type of Manufacturing and Materials Handling Equipment:	Hopper Dryer
Capacity:	1.32E+03
Units:	other units ▼
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E117 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	Vacuum Loader
Manufacturer:	Shini Plastics Technologies, INC.
Model:	SAL-330
Type of Manufacturing and Materials Handling Equipment:	Feeder
Capacity:	6.00E+02
Units:	other units ▼
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E118 (Manufacturing and Materials Handling Equipment)
Print Date: 9/8/2020

Make:	Vacuum Loader
Manufacturer:	Shini Plastics Technologies, INC
Model:	SAL-330
Type of Manufacturing and Materials Handling Equipment:	Feeder
Capacity:	6.00E+02
Units:	other units ▼
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes ▼
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No ▼
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E119 (Manufacturing and Materials Handling Equipment)

Print Date: 9/8/2020

Make:	Resin Extruder
Manufacturer:	DIDA
Model:	Resin Extruder
Type of Manufacturing and Materials Handling Equipment:	Extruder
Capacity:	8.56E+02
Units:	other units
Description (if other):	lbs/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Print Date: 9/8/2020

Circulation rate equivalent to 60,000 lb/hr

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E121 (Storage Vessel)

Print Date: 9/8/2020

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Solids Only

Silo

3,732

ft³

Welded

Cylindrical

33.00

12.00

ft³/min

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 E121 (Storage Vessel)

Print Date: 9/8/2020

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

**New Jersey Department of Environmental Protection
Control Device Inventory**

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	1KDC	Kettle #1 Dust Collector	Particulate Filter (Baghouse)	11/30/1995	No	11/30/1995	
CD2	2KDC	Kettle #2 Dust Collector	Particulate Filter (Baghouse)	3/31/1995	No	3/31/1995	
CD3	3KDC	Kettle #3 Dust Collector	Particulate Filter (Baghouse)	12/6/1995	No	12/6/1995	
CD4	ESDC	End Saw Dust Collector	Particulate Filter (Baghouse)	11/17/1995	No	11/17/1995	
CD5	RDBH	Rock Dryer Dust Collector	Particulate Filter (Baghouse)	9/17/1985	No	9/17/1985	
CD6	LBRB	LP Bin #4 Dust Collector (LP Reserve Bin)	Particulate Filter (Baghouse)	3/25/1996	No	10/2/1986	
CD7	WEDC#1	Supply Elevator Dust Collector	Particulate Filter (Baghouse)	9/9/1996	No	10/13/1988	
CD8	LPA1	LP Accelerator (3rd Flr) Dust Collector	Particulate Filter (Baghouse)	11/4/1988	No	11/4/1988	
CD9	SMS1	Stucco Mixing Screw Dust Collector	Particulate Filter (Baghouse)	11/29/1995	No	11/29/1995	
CD10	BPS1	BP #1 Silo Dust Collector	Particulate Filter (Baghouse)	11/22/1995	No	11/22/1995	
CD11	BPS2	BP #2 Silo Dust Collector	Particulate Filter (Baghouse)	11/22/1995	No	11/22/1995	
CD12	441C	441 Screw Dust Collector	Particulate Filter (Baghouse)	11/22/1995	No	11/22/1995	

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD13	SRB1	Stucco Reserve Bin #1 Dust Collector	Particulate Filter (Baghouse)	11/22/1995	No	11/22/1995	
CD14	PMV1	Mixer Dust Collector	Particulate Filter (Baghouse)	7/13/1990	No	7/13/1990	
CD16	RM1B	Raymond Mill #1 Dust Collector	Particulate Filter (Baghouse)	7/23/1991	No	7/23/1991	
CD18	RM2B	Raymond Mill #2 Dust Collector	Particulate Filter (Baghouse)	5/20/1994	No	5/20/1994	
CD19	4RB	Portland Cement Bin Dust Collector	Particulate Filter (Baghouse)	4/17/1998	No	12/1/1992	
CD20	LPB1	Landplaster Bin #1 Dust Collector	Particulate Filter (Baghouse)	11/9/1995	No	11/9/1995	
CD21	LPB2	Landplaster Bin #2 Dust Collector	Particulate Filter (Baghouse)	11/9/1995	No	11/9/1995	
CD22	LPB3	Landplaster Bin #3 Dust Collector	Particulate Filter (Baghouse)	11/9/1995	No	11/9/1995	
CD23	MPB1	Moulding Plaster Dust Collector (Stucco Reserve Bin #3)	Particulate Filter (Baghouse)	11/22/1995	No	11/22/1995	
CD24	SCBH	Stucco Cooling Dust Collector	Particulate Filter (Baghouse)	12/1/1992	No	12/1/1992	
CD25	Dens Cal DC	Dens Cal Alpha Feed Bin Dust Collector	Particulate Filter (Baghouse)	10/28/1998	No	10/28/1998	
CD26	Blndr Pkr DC	Blender and Packer Dust Collector	Particulate Filter (Baghouse)	10/16/1998	No	10/16/1998	

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD27	LPB4	BP Landplaster Bin Dust Collector (5th floor of Mill)	Particulate Filter (Baghouse)	10/16/1998	No	10/16/1998	
CD28	IM DC	Impact Mill Dust Collector	Particulate Filter (Baghouse)	10/16/1998	No	10/16/1998	
CD29	Screener DC	Impact Mill Screen Dust Collector	Particulate Filter (Baghouse)	10/16/1998	No	10/16/1998	
CD30	#2StccoRsvBn	Stucco Reserve Bin #2 Dust Collector	Particulate Filter (Baghouse)	10/16/1998	No	10/16/1998	
CD31	IMFB DC	Impact Mill Feed Bin Dust Collector	Particulate Filter (Baghouse)	10/16/1998	No	10/16/1998	
CD32	WEDC#2	Schenk Feeder Dust Collector	Particulate Filter (Baghouse)	10/1/2000	No		
CD33	WEDC#3	Reeire. Elevator Dust Collector	Particulate Filter (Baghouse)	10/1/2000	No		
CD34	WEDC#4	Dry Additives Dump Station Dust Collector	Particulate Filter (Baghouse)	10/1/2000	No		
CD35	WEVaeDC	Wet End Vacuum Dust Collector	Particulate Filter (Baghouse)	11/7/2001	No		
CD37	BMBH	Ball Mill and Holtec Saw Dust Collector	Particulate Filter (Baghouse)	7/1/2000	No		
CD39	Reject DC	Reject Bin Dust Collector	Particulate Filter (Baghouse)	7/1/2005	No	7/1/2005	
CD40	ExtrusionESP	ESP for Resin Extruder for Opacity Controls	Electrostatic Precipitator	5/1/2018	No		

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD41	PP SiloCart1	Polypropylene Pellet Silo Cartridge #1	Particulate Filter (Cartridge)	3/1/2020	No		
CD42	PP SiloCart2	Polypropylene Pellet Silo Cartridge #2	Particulate Filter (Cartridge)	3/1/2020	No		
CD43	PP SiloCart3	Polypropylene Pellet Silo Cartridge #3	Particulate Filter (Cartridge)	3/1/2020	No		

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD1 (Particulate Filter (Baghouse))

Print Date: 9/8/2020

Make:	
Manufacturer:	Flex-Kleen
Model:	Flex-Kleen 12,000 cfm
Number of Bags:	169
Size of Bags (ft²):	5.06
Total Bag Area (ft²):	855.0
Bag Fabric:	Nomex
Fabric Weight (oz/ft²):	16.00
Fabric Weave:	Trap-10
Fabric Finish:	Singed
Maximum Design Temperature Capability (°F):	425.0
Maximum Design Air Flow Rate (acfm):	12,000.0
Draft Type:	<input type="button" value="v"/>
Maximum Air Flow Rate to Cloth Area Ratio:	5.20
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	8.00
Method of Monitoring Pressure Drop:	Magnehelic gauge
Maximum Inlet Temperature (°F):	230.0
Minimum Inlet Temperature (°F):	230.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	12,000.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	
Method for Determining When Cleaning is Required:	timing
Method of Bag Cleaning:	Pulse Jet <input type="button" value="v"/>
Description:	
Is Bag Cleaning Conducted On-Line?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD1 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☐ Yes ☒ No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD2 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	
Number of Bags:	169
Size of Bags (ft2):	
Total Bag Area (ft2):	855
Bag Fabric:	Nomex
Fabric Weight (oz/ft):	16
Fabric Weave:	Trap-10
Fabric Finish:	Singed
Maximum Design Temperature Capability (deg F):	425
Maximum Design Air Flow Rate (acfm):	12000
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	5.2 : 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	Magnahelic gauge
Maximum Inlet Temperature (deg F):	300
Minimum Inlet Temperature (deg F):	230
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	12000
Maximum Inlet Gas Stream Moisture Content (%):	42% relative humidity

Method for Determining When Bag Replacement is Required: visual and gauge

Method for Determining When Cleaning is Required: automatic

Method of Bag Cleaning: pulse jet

Is Bag Cleaning Conducted On-Line? yes

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 1

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis? no

Have you attached data from recent performance testing? no

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? no

Have you attached a diagram showing the location and/or configuration of this control apparatus? yes

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD3 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	
Number of Bags:	169
Size of Bags (ft2):	
Total Bag Area (ft2):	855
Bag Fabric:	Nomex
Fabric Weight (oz/ft):	16
Fabric Weave:	Trap-10
Fabric Finish:	Singed
Maximum Design Temperature Capability (deg F):	425
Maximum Design Air Flow Rate (acfm):	12000
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	5.2 : 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	Magnahelic gauge
Maximum Inlet Temperature (deg F):	300
Minimum Inlet Temperature (deg F):	230
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	12000
Maximum Inlet Gas Stream Moisture Content (%):	42% relative humidity

Method for Determining
When Bag Replacement is
Required:

visual and gauge

Method for Determining
When Cleaning is Required:

automatic

Method of Bag Cleaning:

pulse jet

Is Bag Cleaning Conducted
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle
Size Distribution Analysis?

no

Have you attached data from
recent performance testing?

no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

no

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

yes

Comments:

Control Device Design Efficiency Table

[illegible]

Make:	
Manufacturer:	Bayshore Steel
Model:	BSS-DCS-10-1200-100-100-TRW
Number of Bags:	400
Size of Bags (ft2):	
Total Bag Area (ft2):	1200
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	singed
Maximum Design Temperature Capability (deg-F):	225
Maximum Design Air Flow Rate (acfm):	3800
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	3.17 to 4
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	gauge
Maximum Inlet Temperature (deg-F):	ambient
Minimum Inlet Temperature (deg-F):	ambient
Dew Point of Gas Stream (deg-F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	3800
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining- When Bag Replacement is Required:	visual determination
Method for Determining- When Cleaning is Required:	auto
Method of Bag Cleaning:	pulse jet
Is Bag Cleaning Conducted- On-Line?	yes
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	4
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	none
Have you attached a Particle Size Distribution Analysis?	no
Have you attached data from recent performance testing?	no
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	no
Have you attached a diagram showing the location and/or configuration of this control apparatus?	no
Comments:	

[illegible]

51611-GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD5-(Particulate Filter-(Baghouse))-
Print Date: 9/8/2020

Make:	Mikropul
Manufacturer:	Mikropul
Model:	860-J12-20
Number of Bags:	860
Size of Bags (ft ²):	14.4
Total Bag Area (ft ²):	12360
Bag Fabric:	Nomex
Fabric Weight (oz/ft):	16
Fabric Weave:	Feltd
Fabric Finish:	Singed
Maximum Design Temperature Capability (deg-F):	400
Maximum Design Air Flow Rate (acfm):	48000
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	4:01
Minimum Operating Pressure Drop (in. H ₂ O):	2
Maximum Operating Pressure Drop (in. H ₂ O):	8
Method of Monitoring Pressure Drop:	Magnahelix Gauge
Maximum Inlet Temperature (deg-F):	400
Minimum Inlet Temperature (deg-F):	250
Dew Point of Gas Stream (deg-F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	48000
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining-
When Bag Replacement is
Required:

visual

Method for Determining-
When Cleaning is Required:

automatic

Method of Bag Cleaning:

Pulse jet

Is Bag Cleaning Conducted-
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle-
Size Distribution Analysis?

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD6 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Mikropul
Manufacturer:	Mikropul
Model:	49S-8-20
Number of Bags:	49
Size of Bags (ft2):	
Total Bag Area (ft2):	577
Bag Fabric:	Nomex
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	singed
Maximum Design Temperature Capability (deg F):	250
Maximum Design Air Flow Rate (acfm):	2000
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	6 to 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	Magnahelic gauge
Maximum Inlet Temperature (deg F):	250
Minimum Inlet Temperature (deg F):	ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	5000 1.495 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining When Bag Replacement is Required: visual determination and magnahelic gauge

Method for Determining When Cleaning is Required: auto

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted On-Line? yes

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 3

Alternative Method to Demonstrate Control Apparatus is Operating Properly: none

Have you attached a Particle Size Distribution Analysis? no

Have you attached data from recent performance testing? no

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? no

Have you attached a diagram showing the location and/or configuration of this control apparatus? no

Comments:

Control Device Design Efficiency Table

[illegible]

Make:	
Manufacturer:	
Model:	
Number of Bags:	
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	cloth
Fabric Weight (oz/ft):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg-F):	
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	5.1 to 1
Minimum Operating Pressure Drop (in. H2O):	4
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	magnahelic-gauge
Maximum Inlet Temperature (deg-F):	450
Minimum Inlet Temperature (deg-F):	130
Dew Point of Gas Stream (deg-F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining-
When Bag Replacement is
Required:

visual inspection and magnahelic gauge

Method for Determining-
When Cleaning is Required:

auto

Method of Bag Cleaning:

pulse-jet

Is Bag Cleaning Conducted-
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

none

Have you attached a Particle
Size Distribution Analysis?

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

[illegible]

51611-GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD8-(Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Filtrex
Manufacturer:	Filtrex
Model:	C-4-1000B
Number of Bags:	4
Size of Bags (ft2):	
Total Bag Area (ft2):	255
Bag Fabric:	pleated polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	standard
Fabric Finish:	standard
Maximum Design Temperature Capability (deg-F):	250
Maximum Design Air Flow Rate (acfm):	500
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	2 to 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic gauge
Maximum Inlet Temperature (deg-F):	ambient
Minimum Inlet Temperature (deg-F):	
Dew Point of Gas Stream (deg-F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	500
Maximum Inlet Gas Stream Moisture Content (%):	ambient

Method for Determining-
When Bag Replacement is
Required:

visual determination and magnahelic gauge

Method for Determining-
When Cleaning is Required:

auto

Method of Bag Cleaning:

pulse-jet

Is Bag Cleaning Conducted-
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

none

Have you attached a Particle
Size Distribution Analysis?

no

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

[illegible]

51611-GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD9 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	41
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg-F):	225
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	7.5 to 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic-gauge
Maximum Inlet Temperature (deg-F):	ambient
Minimum Inlet Temperature (deg-F):	ambient
Dew Point of Gas Stream (deg-F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200
Maximum Inlet Gas Stream Moisture Content (%):	1

Method for Determining-
When Bag Replacement is
Required:

visual-and-magnahelic-gauge

Method for Determining-
When Cleaning is Required:

auto

Method of Bag Cleaning:

pulse-jet

Is Bag Cleaning Conducted-
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

none

Have you attached a Particle
Size Distribution Analysis?

no

Have you attached data from
recent performance testing?

no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

no

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

no

Comments:

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD10 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	40.6
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg-F):	225
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	7.5 to 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic-gauge
Maximum Inlet Temperature (deg-F):	ambient
Minimum Inlet Temperature (deg-F):	
Dew Point of Gas Stream (deg-F):	ambient
Maximum Operating Exhaust Gas Flow Rate (acfm):	200
Maximum Inlet Gas Stream Moisture Content (%):	1

Method for Determining-
When Bag Replacement is
Required: visual-determination-and-magnahelic-gauge

Method for Determining-
When Cleaning is Required: auto

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted-
On-Line? yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources): 1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly: none

Have you attached a Particle
Size Distribution Analysis? no

Have you attached data from
recent performance testing? no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus? no

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus? no

Comments:

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD11 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	40.6
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg-F):	225
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	7.5 to 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic-gauge
Maximum Inlet Temperature (deg-F):	ambient
Minimum Inlet Temperature (deg-F):	
Dew Point of Gas Stream (deg-F):	ambient
Maximum Operating Exhaust Gas Flow Rate (acfm):	200
Maximum Inlet Gas Stream Moisture Content (%):	1

Method for Determining-
When Bag Replacement is
Required: visual-determination-and-magnahelic-gauge

Method for Determining-
When Cleaning is Required: auto

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted-
On-Line? yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources): 1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly: none

Have you attached a Particle
Size Distribution Analysis? no

Have you attached data from
recent performance testing? no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus? no

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus? no

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD12 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	FLex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	40.6
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg-F):	225
Maximum Design Air Flow Rate (acfm):	300
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	7.5 to 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic-gauge
Maximum Inlet Temperature (deg-F):	125
Minimum Inlet Temperature (deg-F):	
Dew Point of Gas Stream (deg-F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	300
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining-
When Bag Replacement is
Required: visual-determination-and-magnahelic-gauge

Method for Determining-
When Cleaning is Required: automatic

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted-
On-Line? yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources): 1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly: none

Have you attached a Particle
Size Distribution Analysis? no

Have you attached data from
recent performance testing? no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus? no

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus? no

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD13 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	FELTED
Fabric Finish:	PLAIN
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	FORCED
Maximum Air Flow Rate to Cloth Area Ratio:	5.12 TO 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	MAGNAHELIC GAUGE
Maximum Inlet Temperature (deg F):	125
Minimum Inlet Temperature (deg F):	AMBIENT
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200 220 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining
When Bag Replacement is
Required: VISUAL INSPECTION AND MAGNAHELIC
GAUGE

Method for Determining
When Cleaning is Required: AUTO

Method of Bag Cleaning: PULSE-JET

Is Bag Cleaning Conducted
On-Line? YES

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources): 1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly: NONE

Have you attached a Particle
Size Distribution Analysis? NO

Have you attached data from
recent performance testing? NO

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus? NO

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus? NO

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD14 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	84BVBS25-II
Number of Bags:	25
Size of Bags (ft ²):	6"x84"
Total Bag Area (ft ²):	265
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	singed
Maximum Design Temperature Capability (deg-F):	275
Maximum Design Air Flow Rate (acfm):	350
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	1.32 to 1
Minimum Operating Pressure Drop (in. H ₂ O):	2
Maximum Operating Pressure Drop (in. H ₂ O):	8
Method of Monitoring Pressure Drop:	magnehelic-gauge
Maximum Inlet Temperature (deg-F):	ambient
Minimum Inlet Temperature (deg-F):	ambient
Dew Point of Gas Stream (deg-F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	350
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining-
When Bag Replacement is
Required:

visual and magnehelic-gauge

Method for Determining-
When Cleaning is Required:

visual and magnehelic-gauge

Method of Bag Cleaning:

pulse-jet

Is Bag Cleaning Conducted-
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle
Size Distribution Analysis?

no

Have you attached data from
recent performance testing?

no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

no

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

no

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD16 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Number of Bags:	<input type="text" value="169"/>
Size of Bags (ft2):	<input type="text"/>
Total Bag Area (ft2):	<input type="text" value="2146"/>
Bag Fabric:	<input type="text" value="polyester"/>
Fabric Weight (oz/ft):	<input type="text" value="16"/>
Fabric Weave:	<input type="text" value="felted"/>
Fabric Finish:	<input type="text" value="singed"/>
Maximum Design Temperature Capability (deg F):	<input type="text" value="200"/>
Maximum Design Air Flow Rate (acfm):	<input type="text" value="10000"/>
Draft Type:	<input type="text"/>
Maximum Air Flow Rate to Cloth Area Ratio:	<input type="text" value="4.66 to 1"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="2"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text" value="8"/>
Method of Monitoring Pressure Drop:	<input type="text"/>
Maximum Inlet Temperature (deg F):	<input type="text" value="170"/>
Minimum Inlet Temperature (deg F):	<input type="text"/>
Dew Point of Gas Stream (deg F):	<input type="text"/>
Maximum Operating Exhaust Gas Flow Rate (acfm):	<input type="text" value="10000 (permit basis)"/>
Maximum Inlet Gas Stream Moisture Content (%):	<input type="text" value="5"/>

Method for Determining
When Bag Replacement is
Required:

Method for Determining
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted
On-Line?

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle
Size Distribution Analysis?

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD18 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	
Manufacturer:	Flex-Kleen
Model:	100-WSWG-169 X L (III)
Number of Bags:	169
Size of Bags (ft2):	100" LENGTH
Total Bag Area (ft2):	2146
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	FELTED
Fabric Finish:	SINGED
Maximum Design Temperature Capability (deg F):	200
Maximum Design Air Flow Rate (acfm):	10000
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	4.66 TO 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	MAGNAHELIC GAUGE
Maximum Inlet Temperature (deg F):	200
Minimum Inlet Temperature (deg F):	170
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	10000 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	5

Method for Determining
When Bag Replacement is
Required:

Method for Determining
When Cleaning is Required:

Method of Bag Cleaning:

Is Bag Cleaning Conducted
On-Line?

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle
Size Distribution Analysis?

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD19 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex Kleen
Manufacturer:	
Model:	84 BVBS-25
Number of Bags:	25
Size of Bags (ft2):	
Total Bag Area (ft2):	265
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	750950
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	2.8 to 1
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	
Maximum Inlet Temperature (deg F):	200
Minimum Inlet Temperature (deg F):	ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	750950 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	1

Method for Determining
When Bag Replacement is
Required:

visual inspection and gauge

Method for Determining
When Cleaning is Required:

automatic

Method of Bag Cleaning:

pulse jet

Is Bag Cleaning Conducted
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle
Size Distribution Analysis?

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD20 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	FELTED
Fabric Finish:	PLAIN
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	FORCED
Maximum Air Flow Rate to Cloth Area Ratio:	5.12 TO 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	MAGNAHELIC GAUGE
Maximum Inlet Temperature (deg F):	125
Minimum Inlet Temperature (deg F):	AMBIENT
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining
When Bag Replacement is
Required: VISUAL INSPECTION AND MAGNAHELIC
GAUGE

Method for Determining
When Cleaning is Required: AUTO

Method of Bag Cleaning: PULSE-JET

Is Bag Cleaning Conducted
On-Line? YES

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources): 1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly: NONE

Have you attached a Particle
Size Distribution Analysis? NO

Have you attached data from
recent performance testing? NO

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus? NO

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus? NO

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD21 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	FELTED
Fabric Finish:	PLAIN
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	FORCED
Maximum Air Flow Rate to Cloth Area Ratio:	5.12 TO 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	MAGNAHELIC GAUGE
Maximum Inlet Temperature (deg F):	125
Minimum Inlet Temperature (deg F):	AMBIENT
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining
When Bag Replacement is
Required:

VISUAL INSPECTION AND MAGNAHELIC
GAUGE

Method for Determining
When Cleaning is Required:

AUTO

Method of Bag Cleaning:

PULSE-JET

Is Bag Cleaning Conducted
On-Line?

YES

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

NONE

Have you attached a Particle
Size Distribution Analysis?

NO

Have you attached data from
recent performance testing?

NO

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

NO

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

NO

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD22 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	FELTED
Fabric Finish:	PLAIN
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	FORCED
Maximum Air Flow Rate to Cloth Area Ratio:	5.12 TO 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	MAGNAHELIC GAUGE
Maximum Inlet Temperature (deg F):	125
Minimum Inlet Temperature (deg F):	AMBIENT
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining
When Bag Replacement is
Required:

VISUAL INSPECTION AND MAGNAHELIC
GAUGE

Method for Determining
When Cleaning is Required:

AUTO

Method of Bag Cleaning:

PULSE-JET

Is Bag Cleaning Conducted
On-Line?

YES

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

NONE

Have you attached a Particle
Size Distribution Analysis?

NO

Have you attached data from
recent performance testing?

NO

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

NO

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

NO

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD23 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	200 220
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	5.12 to 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic gauge
Maximum Inlet Temperature (deg F):	125
Minimum Inlet Temperature (deg F):	ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200 220 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining When Bag Replacement is Required: visual determination and magnahelic gauge

Method for Determining When Cleaning is Required: auto

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted On-Line? yes

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 2

Alternative Method to Demonstrate Control Apparatus is Operating Properly: none

Have you attached a Particle Size Distribution Analysis? no

Have you attached data from recent performance testing? no

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? no

Have you attached a diagram showing the location and/or configuration of this control apparatus? no

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD24 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Micropul
Manufacturer:	
Model:	144S10
Number of Bags:	144
Size of Bags (ft2):	
Total Bag Area (ft2):	2092
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	singed
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	8000
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	4.7 to 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic gauge
Maximum Inlet Temperature (deg F):	175
Minimum Inlet Temperature (deg F):	ambient 98 (permit basis)
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	8000 5,551 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining
When Bag Replacement is
Required:

visual and magnahelic gauge

Method for Determining
When Cleaning is Required:

auto

Method of Bag Cleaning:

pulse-jet

Is Bag Cleaning Conducted
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

8

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

none

Have you attached a Particle
Size Distribution Analysis?

no

Have you attached data from
recent performance testing?

no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

no

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

no

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD25 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	84BVBS-25
Number of Bags:	25
Size of Bags (ft2):	
Total Bag Area (ft2):	265
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	750950
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	2.8 to 1
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic gauge
Maximum Inlet Temperature (deg F):	ambient
Minimum Inlet Temperature (deg F):	ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	750950 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	< 1

Method for Determining When Bag Replacement is Required: visual determination and magnahelic gauge

Method for Determining When Cleaning is Required: magnahelic gauge

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted On-Line? yes

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 1

Alternative Method to Demonstrate Control Apparatus is Operating Properly: none

Have you attached a Particle Size Distribution Analysis? no

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? no

Have you attached a diagram showing the location and/or configuration of this control apparatus? no

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD26 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Bayshore
Manufacturer:	Bayshore
Model:	10-1200-100-100TRW
Number of Bags:	100
Size of Bags (ft2):	
Total Bag Area (ft2):	1200
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	singed
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	5000
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	5:12:01
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic gauge
Maximum Inlet Temperature (deg F):	ambient
Minimum Inlet Temperature (deg F):	ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	5000 3,329 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	< 1

Method for Determining When Bag Replacement is Required: visual determination and magnahelic gauge

Method for Determining When Cleaning is Required: automatic

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted On-Line? yes

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 5

Alternative Method to Demonstrate Control Apparatus is Operating Properly: none

Have you attached a Particle Size Distribution Analysis? no

Have you attached data from recent performance testing? no

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Have you attached a diagram showing the location and/or configuration of this control apparatus?

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD27 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	POLYESTER
Fabric Weight (oz/ft):	16
Fabric Weave:	FELTED
Fabric Finish:	PLAIN
Maximum Design Temperature Capability (deg-F):	225
Maximum Design Air Flow Rate (acfm):	200
Draft Type:	FORCED
Maximum Air Flow Rate to Cloth Area Ratio:	5.12 TO 1
Minimum Operating Pressure Drop (in. H2O):	2
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	MAGNAHELIC GAUGE
Maximum Inlet Temperature (deg-F):	125
Minimum Inlet Temperature (deg-F):	AMBIENT
Dew Point of Gas Stream (deg-F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200
Maximum Inlet Gas Stream Moisture Content (%):	10

Method for Determining-
When Bag Replacement is
Required: VISUAL INSPECTION AND MAGNAHELIC-
GAUGE

Method for Determining-
When Cleaning is Required: AUTO

Method of Bag Cleaning: PULSE-JET

Is Bag Cleaning Conducted-
On-Line? YES

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources): 4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly: NONE

Have you attached a Particle
Size Distribution Analysis? NO

Have you attached data from
recent performance testing? NO

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus? NO

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus? NO

Comments:

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD28 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	FLEX-KLEEN
Manufacturer:	FLEX-KLEEN
Model:	58-BVBS-16
Number of Bags:	16
Size of Bags (ft2):	30
Total Bag Area (ft2):	480
Bag Fabric:	SPUN POLYESTER BELT
Fabric Weight (oz/ft):	16
Fabric Weave:	FELTED
Fabric Finish:	PLAIN
Maximum Design Temperature Capability (deg F):	NA
Maximum Design Air Flow Rate (acfm):	1200
Draft Type:	FORCED
Maximum Air Flow Rate to Cloth Area Ratio:	2.5 TO 1
Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	15
Method of Monitoring Pressure Drop:	MAGNAHELIC GAUGE
Maximum Inlet Temperature (deg F):	AMBIENT
Minimum Inlet Temperature (deg F):	AMBIENT
Dew Point of Gas Stream (deg F):	NA
Maximum Operating Exhaust Gas Flow Rate (acfm):	1200 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	NA

Method for Determining When Bag Replacement is Required:	MAGNAHELIC GAUGE
Method for Determining When Cleaning is Required:	AUTO
Method of Bag Cleaning:	PULSE-JET
Is Bag Cleaning Conducted On-Line?	YES
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	3
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	NA
Have you attached a Particle Size Distribution Analysis?	NO
Have you attached data from recent performance testing?	NO
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	NO
Have you attached a diagram showing the location and/or configuration of this control apparatus?	NO
Comments:	

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD29 (Particulate Filter (Baghouse))

Print Date: 9/8/2020

Make:	100337
Manufacturer:	Flex Kleen
Model:	36 BVBS 9 II G
Number of Bags:	9
Size of Bags (ft²):	
Total Bag Area (ft²):	39.0
Bag Fabric:	Polyester
Fabric Weight (oz/ft²):	
Fabric Weave:	Felted
Fabric Finish:	Plain
Maximum Design Temperature Capability (°F):	
Maximum Design Air Flow Rate (acfm):	200.0 300
Draft Type:	Forced <input type="button" value="v"/>
Maximum Air Flow Rate to Cloth Area Ratio:	5.13
Minimum Operating Pressure Drop (in. H2O):	1.00
Maximum Operating Pressure Drop (in. H2O):	8.00
Method of Monitoring Pressure Drop:	Magnehelic Gauge
Maximum Inlet Temperature (°F):	ambient 70.0
Minimum Inlet Temperature (°F):	ambient 70.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	300 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Visual and Differential Pressure from Magnehelic Gauge
Method for Determining When Cleaning is Required:	Auto
Method of Bag Cleaning:	Pulse Jet <input type="button" value="v"/>
Description:	
Is Bag Cleaning Conducted On-Line?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	none
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD29 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☐ Yes ☒ No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD30 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	200 300
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	5.12 to 1
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic gauge
Maximum Inlet Temperature (deg F):	125
Minimum Inlet Temperature (deg F):	125 ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200 300 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	< 1

Method for Determining When Bag Replacement is Required: visual determination and magnahelic gauge

Method for Determining When Cleaning is Required: auto

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted On-Line? yes

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 1

Alternative Method to Demonstrate Control Apparatus is Operating Properly: none

Have you attached a Particle Size Distribution Analysis? no

Have you attached data from recent performance testing? no

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? no

Have you attached a diagram showing the location and/or configuration of this control apparatus?

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD31 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	36-BVBS-9
Number of Bags:	9
Size of Bags (ft2):	
Total Bag Area (ft2):	39
Bag Fabric:	polyester
Fabric Weight (oz/ft):	16
Fabric Weave:	felted
Fabric Finish:	plain
Maximum Design Temperature Capability (deg F):	225
Maximum Design Air Flow Rate (acfm):	200 300
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	5.12 to 1
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	8
Method of Monitoring Pressure Drop:	magnahelic gauge
Maximum Inlet Temperature (deg F):	125
Minimum Inlet Temperature (deg F):	ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	200 300 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	< 1

Method for Determining When Bag Replacement is Required: visual determination and magnahelic gauge

Method for Determining When Cleaning is Required: auto

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted On-Line? yes

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 1

Alternative Method to Demonstrate Control Apparatus is Operating Properly: none

Have you attached a Particle Size Distribution Analysis? no

Have you attached data from recent performance testing? no

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? no

Have you attached a diagram showing the location and/or configuration of this control apparatus? no

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD32 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Number of Bags:	
Size of Bags (ft2):	
Total Bag Area (ft2):	69
Bag Fabric:	cloth
Fabric Weight (oz/ft):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	450
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	6.5 to 1
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	10
Method of Monitoring Pressure Drop:	gauge
Maximum Inlet Temperature (deg F):	450
Minimum Inlet Temperature (deg F):	130
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	450
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining-
When Bag Replacement is
Required:

visual inspection and gauge reading

Method for Determining-
When Cleaning is Required:

auto

Method of Bag Cleaning:

pulse jet

Is Bag Cleaning Conducted-
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

2

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle
Size Distribution Analysis?

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD33 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Number of Bags:	<input type="text"/>
Size of Bags (ft2):	<input type="text"/>
Total Bag Area (ft2):	<input type="text" value="39"/>
Bag Fabric:	<input type="text" value="cloth"/>
Fabric Weight (oz/ft):	<input type="text"/>
Fabric Weave:	<input type="text"/>
Fabric Finish:	<input type="text"/>
Maximum Design Temperature Capability (deg F):	<input type="text"/>
Maximum Design Air Flow Rate (acfm):	<input type="text" value="200"/>
Draft Type:	<input type="text" value="forced"/>
Maximum Air Flow Rate to Cloth Area Ratio:	<input type="text" value="5.1 to 1"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="1"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text" value="40"/>
Method of Monitoring Pressure Drop:	<input type="text" value="gauge"/>
Maximum Inlet Temperature (deg F):	<input type="text" value="450"/>
Minimum Inlet Temperature (deg F):	<input type="text" value="130"/>
Dew Point of Gas Stream (deg F):	<input type="text"/>
Maximum Operating Exhaust Gas Flow Rate (acfm):	<input type="text" value="200"/>
Maximum Inlet Gas Stream Moisture Content (%):	<input type="text"/>

Method for Determining-
When Bag Replacement is
Required: visual inspection and gauge reading

Method for Determining-
When Cleaning is Required: auto

Method of Bag Cleaning: pulse jet

Is Bag Cleaning Conducted-
On-Line? yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources): 1

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle
Size Distribution Analysis?

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD34 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	
Manufacturer:	
Model:	
Number of Bags:	2
Size of Bags (ft2):	11
Total Bag Area (ft2):	22
Bag Fabric:	polyester
Fabric Weight (oz/ft):	
Fabric Weave:	spun
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	
Maximum Design Air Flow Rate (acfm):	1000
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	45 to 1
Minimum Operating Pressure Drop (in. H2O):	1
Maximum Operating Pressure Drop (in. H2O):	14
Method of Monitoring Pressure Drop:	gauge
Maximum Inlet Temperature (deg F):	150
Minimum Inlet Temperature (deg F):	130
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	1000
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining-
When Bag Replacement is
Required:

visual inspection and gauge reading

Method for Determining-
When Cleaning is Required:

auto

Method of Bag Cleaning:

pulse jet

Is Bag Cleaning Conducted-
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

Have you attached a Particle
Size Distribution Analysis?

Have you attached data from
recent performance testing?

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

2--12"x36" bags

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD35 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	120-WXPC-144-Aff. III
Number of Bags:	135
Size of Bags (ft ²):	16.3
Total Bag Area (ft ²):	2204
Bag Fabric:	polypropylene
Fabric Weight (oz/ft):	14
Fabric Weave:	felted
Fabric Finish:	singed
Maximum Design Temperature Capability (deg-F):	170
Maximum Design Air Flow Rate (acfm):	40000
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	4.6 to 1
Minimum Operating Pressure Drop (in. H ₂ O):	0.5
Maximum Operating Pressure Drop (in. H ₂ O):	15
Method of Monitoring Pressure Drop:	Magnahelix Gauge
Maximum Inlet Temperature (deg-F):	Indoor ambient (120F)
Minimum Inlet Temperature (deg-F):	Indoor ambient (35F)
Dew Point of Gas Stream (deg-F):	ambient
Maximum Operating Exhaust Gas Flow Rate (acfm):	40000
Maximum Inlet Gas Stream Moisture Content (%):	ambient

Method for Determining-
When Bag Replacement is
Required:

Magnahelic Gauge

Method for Determining-
When Cleaning is Required:

auto

Method of Bag Cleaning:

pulse jet

Is Bag Cleaning Conducted-
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

routine preventive maintainance

Have you attached a Particle
Size Distribution Analysis?

no

Have you attached data from
recent performance testing?

no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Comments:

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD36 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	Flex-Kleen
Model:	120-WXWC-435 arr III
Number of Bags:	435
Size of Bags (ft2):	16.3
Total Bag Area (ft2):	7090.5
Bag Fabric:	polypropylene
Fabric Weight (oz/ft):	16
Fabric Weave:	felt
Fabric Finish:	singed
Maximum Design Temperature Capability (deg-F):	170
Maximum Design Air Flow Rate (acfm):	30000
Draft Type:	forced -- negative air
Maximum Air Flow Rate to Cloth Area Ratio:	4.2:1
Minimum Operating Pressure Drop (in. H2O):	0.5
Maximum Operating Pressure Drop (in. H2O):	15
Method of Monitoring Pressure Drop:	magnahelic-gauge
Maximum Inlet Temperature (deg-F):	indoor-ambient
Minimum Inlet Temperature (deg-F):	indoor-ambient
Dew Point of Gas Stream (deg-F):	ambient
Maximum Operating Exhaust Gas Flow Rate (acfm):	30000
Maximum Inlet Gas Stream Moisture Content (%):	ambient

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD36 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Method for Determining-
When Bag Replacement is
Required:

Magnahelic-gauge

Method for Determining-
When Cleaning is Required:

continuous cleaning

Method of Bag Cleaning:

pulse-jet

Is Bag Cleaning Conducted
On-Line?

yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources):

4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly:

routine preventive maintenance

Have you attached a Particle
Size Distribution Analysis?

no

Have you attached data from
recent performance testing?

no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus?

No, it was attached in original application

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

No, it was attached in original application

Comments:

None

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005-CD37 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Make:	Flex-Kleen
Manufacturer:	
Model:	84-BVBS-25, Arr III
Number of Bags:	25
Size of Bags (ft ²):	10.6
Total Bag Area (ft ²):	265
Bag Fabric:	polyester
Fabric Weight (oz/ft):	2.3
Fabric Weave:	singed
Fabric Finish:	
Maximum Design Temperature Capability (deg F):	100
Maximum Design Air Flow Rate (acfm):	1200
Draft Type:	forced
Maximum Air Flow Rate to Cloth Area Ratio:	4.5 to 1
Minimum Operating Pressure Drop (in. H ₂ O):	1
Maximum Operating Pressure Drop (in. H ₂ O):	14
Method of Monitoring Pressure Drop:	magnahelic gauge
Maximum Inlet Temperature (deg F):	ambient
Minimum Inlet Temperature (deg F):	ambient
Dew Point of Gas Stream (deg F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	1200
Maximum Inlet Gas Stream Moisture Content (%):	

Method for Determining-
When Bag Replacement is
Required: visual inspection and maganhelic-gauge

Method for Determining-
When Cleaning is Required: visual inspection

Method of Bag Cleaning: pulse-jet

Is Bag Cleaning Conducted-
On-Line? yes

Maximum Number of
Sources Using this
Apparatus as a Control
Device (Include Permitted
and Non-permitted Sources): 4

Alternative Method to
Demonstrate Control
Apparatus is Operating
Properly: none

Have you attached a Particle
Size Distribution Analysis? no

Have you attached data from
recent performance testing? no

Have you attached any
manufacturer's data or
specifications in support of
the feasibility and/or
effectiveness of this control
apparatus? no

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus? no

Comments:

Control Device Design Efficiency Table

[illegible]

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD39 (Particulate Filter (Baghouse))

Print Date: 9/8/2020

Make:	Flex Kleen
Manufacturer:	Flex Kleen
Model:	36BVB9
Number of Bags:	9
Size of Bags (ft²):	12.70
Total Bag Area (ft²):	114.3
Bag Fabric:	Polyester
Fabric Weight (oz/ft²):	16.00
Fabric Weave:	Felt
Fabric Finish:	Singed
Maximum Design Temperature Capability (°F):	350.0
Maximum Design Air Flow Rate (acfm):	300.0
Draft Type:	Forced
Maximum Air Flow Rate to Cloth Area Ratio:	4.37
Minimum Operating Pressure Drop (in. H2O):	15.00
Maximum Operating Pressure Drop (in. H2O):	0.50
Method of Monitoring Pressure Drop:	Magnahelic guage
Maximum Inlet Temperature (°F):	Ambient
Minimum Inlet Temperature (°F):	Ambient
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	300 (permit basis)
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	
Method for Determining When Cleaning is Required:	
Method of Bag Cleaning:	
Description:	
Is Bag Cleaning Conducted On-Line?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD39 (Particulate Filter (Baghouse))
Print Date: 9/8/2020

Have you attached data from recent performance testing?

☐ Yes ☒ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☒ Yes ☐ No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD40 (Electrostatic Precipitator)
Print Date: 9/8/2020

Make:	Air Boss
Manufacturer:	Trion
Model:	T5200 (tandem)
Unit Type:	O3 <input type="button" value="v"/>
Description:	T5200 tandem, ESP mist collector/air cleaner
Number of Stages:	3
Method of Operation:	Dry <input type="button" value="v"/>
Method of Cleaning:	Wash Off <input type="button" value="v"/>
Description:	
Capacity (acfm):	5,800.0
Maximum Gas Velocity (ft/sec):	15
Type of Rectifier:	Solid State <input type="button" value="v"/>
Maximum Inlet Gas Stream Moisture (%):	
Maximum Inlet Gas Stream Temperature (°F):	140.0
Number of Plates:	57
Number of Fields:	2
Aspect Ratio:	1.01
Plate Surface Area (ft²):	121.0
Spacing Between Plates (in):	0.22
Cross Sectional Area of Precipitator (ft²):	6.2
Treatment Time (sec.):	
Maximum Corona Power (Volt):	11,200.00
Minimum Apparent Migration Velocity (ft/min):	
Maximum Particle Resistivity (ohm-cm):	
Average Particle Size (Micrometers):	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	The control device shall be operated and maintained in accordance with the manufacturer's recommendations.

Have you attached data from recent performance testing? ☐ Yes ☐ No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? ☒ Yes ☐ No

Have you attached a diagram showing the location and/or configuration of this control apparatus? ☒ Yes ☐ No

Comments:

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD40 (Electrostatic Precipitator)
Print Date: 9/8/2020

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD41 (Particulate Filter (Cartridge))

Print Date: 9/8/2020

Make:	Modular Cartridge Bin Vent
Manufacturer:	Coperion
Model:	K-Tron
Number of Cartridges:	1
Size of Cartridges (ft²):	104.70
Total Cartridge Area (ft²):	104.70
Maximum Design Temperature Capability (°F):	266.0
Maximum Design Air Flow Rate (acfm):	400.0
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input type="radio"/> No
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD42 (Particulate Filter (Cartridge))
Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Number of Cartridges:

Size of Cartridges (ft²):

Total Cartridge Area (ft²):

Maximum Design Temperature Capability (°F):

Maximum Design Air Flow Rate (acfm):

Maximum Air Flow Rate to Filter Area Ratio:

Minimum Operating Pressure Drop (in. H₂O):

Maximum Operating Pressure Drop (in. H₂O):

Maximum Inlet Temperature (°F):

Maximum Operating Exhaust Gas Flow Rate (acfm):

Method for Determining When Cartridge Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Have you attached a diagram showing the location and/or configuration of this control apparatus?

Comments:

Modular Cartridge Bin Vent
Coperion
K-Tron
Number of Cartridges: 1
Size of Cartridges (ft ²): 104.70
Total Cartridge Area (ft ²): 104.70
Maximum Design Temperature Capability (°F): 266.0
Maximum Design Air Flow Rate (acfm): 400.0
Maximum Air Flow Rate to Filter Area Ratio:
Minimum Operating Pressure Drop (in. H ₂ O):
Maximum Operating Pressure Drop (in. H ₂ O):
Maximum Inlet Temperature (°F):

Maximum Operating Exhaust Gas Flow Rate (acfm):
Method for Determining When Cartridge Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources): 1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:

☐ Yes ☐ No

☐ Yes ☐ No

☒ Yes ☐ No

☒ Yes ☐ No

51611 GEORGIA-PACIFIC GYPSUM LLC BOP190005 CD43 (Particulate Filter (Cartridge))
Print Date: 9/8/2020

Make:

Manufacturer:

Model:

Number of Cartridges:

Size of Cartridges (ft²):

Total Cartridge Area (ft²):

Maximum Design Temperature Capability (°F):

Maximum Design Air Flow Rate (acfm):

Maximum Air Flow Rate to Filter Area Ratio:

Minimum Operating Pressure Drop (in. H2O):

Maximum Operating Pressure Drop (in. H2O):

Maximum Inlet Temperature (°F):

Maximum Operating Exhaust Gas Flow Rate (acfm):

Method for Determining When Cartridge Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis?

Have you attached data from recent performance testing?

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Have you attached a diagram showing the location and/or configuration of this control apparatus?

Comments:

Modular Cartridge Bin Vent
Coperion
K-Tron
1
104.70
104.70
266.0
400.0

--

1

☐ Yes ☐ No

☐ Yes ☐ No

☒ Yes ☐ No

☒ Yes ☐ No

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT3	1KF	Flue Stack #1 Kettle Burner	Round	36	97	250	600.0	500.0	900.0	3,000.0	2,500.0	3,500.0	Up	
PT4	1KDC	Dust Collector Stack #1 Kettle Dust Collector	Rectangle	27	85	250	230.0	220.0	240.0300	512,000.0	11,500.04,900	12,500.0	Up	
PT5	2KF	#2 Kettle Burner	Round	36	97	280	450.0	400.0	500.0	3,000.0	2,500.0	3,500.0	Up	
PT6	2KDC	#2 Kettle Dust Collector	Round	27	85	250	230.0	220.0	240.0300	512,000.0	11,500.04,900	12,500.0	Horizontal	
PT7	3KF	#3 Kettle Burner	Round	36	97	280	700.0	500.0	900.0	3,000.0	2,500.0	3,500.0	Up	
PT8	3KDC	#3 Kettle Dust Collector	Round	27	85	280	230.0	210.0	250.0300	512,000.0	11,000.04,900	12,500.0	Up	
PT9	OB1	Boiler for Office Heat	Round	24	40	50	230.0	210.0	250.0	12,000.0	11,000.0	12,500.0	Up	
PT13	PWH1	Process Water Heater	Round	8	60	150	600.0	575.0	625.0	620.0	580.0	630.0	Up	
PT14	AFT1	Alpha Foamer Soap Tank	Round	3	30	100	70.0	50.0	90.0	50.0	25.0	100.0	Up	
PT15	ESDC	Board end saw dust collector	Round	10	95	180	70.0	40.0	100.0	3,800.0	3,600.0	4,000.0	Up	
PT16	RD4,1C,2C,3C	Rotary Dryer and Conveyor Belt System	Round	48	32	450	200.0	180.0	220.0	60,000.0	50,000.0	70,000.0	Up	
PT17	LPRB	Landplaster Reserve Bin Vent	Round	12	70	300	180.0 Ambient	150.0 Ambient	200.0 Ambient	2,000.0	1,800.0	2,200.01,495	Up	
PT26	RM1B	Raymond Mill #1	Round	22	90	150	180.0	150.0	200.0	10,000.0	9,500.0	10,000.0	Up	
PT27	RM2B	Raymond Mill #2	Round	22	95	150	180.0	150.0	200.0	10,000.0	9,500.0	10,000.0	Up	
PT33	SCBH	Stucco Cooling Baghouse	Round	24	40	250	175.0	160.098	190.0	8,000.0	7,500.0	8,000.05,551	Horizontal	
PT34	RF	Reclaim Feeder	Round	999	20	450	70.0	20.0	100.0	50.0	40.0	100.0	Up	
PT36	Supersac EP	Supersac Loading Emission Point	Round	15	95	180	70.0 Ambient	70.0 Ambient	110.0 Ambient	17.3	3,000.0	5,000.03,239	Up	
PT51	WEVaeDC	Wet End Vacuum System Stack	Round	22	56	175	80.0	35.0	120.0	9,000.0	8,000.0	10,000.0	Up	

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT104	Reclaim Cove	Reclaim Conveyor	Door	55	0	421	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT107	TransfrTwr1	Transfer Tower Door 1	Door	55	71	423	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT108	TransfrTwr2	Transfer Tower Door 2	Door	55	61	406	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT109	CrusherBldg1	Crusher Building Door 1	Door	55	16	421	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT110	CrusherBldg2	Crusher Building Door 2	Door	55	18	413	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT111	DeLumper	Franklin Miller Delumper	Rectangle	36	48	250		20.0	110.0		0.0	1.3	Horizontal	
PT115	Building Exh	Building Exhaust	Round	18	25	175	60.0	50.0	70.0	100.0	0.0	200.0	Horizontal	
PT119	ResinExtrude	Resin Extruder	Round	16	42	175	105.0	60.0	150.0	4,550.0	3,300.0	5,800.0	Up	
PT120	Cooling Sys	Cooling System	Round	25	16	175	80.0	60.0	100.0	5,300.0	0.0	10,600.0	Horizontal	
PT151	PP Silo EP	Polypropylene Pellet Silo Emission Point	Round	20	33	175	100.0 Ambient	Ambient	Ambient	1,200.0		1,200	Up	

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 2 3 Kettles Kettle Calciners #1, #2 and #3

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCCA	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	IKF-NG	Kettle #1 Natural Gas combustion emissions - E3-CD1-PT3-PT4	Normal - Steady State	E3	CD1 (P)	PT3 PT4	3-05-015-11	0.0	8,760.0		14,000.0	16,000.0	720.0	1,140.0
OS2	IKF-DFO	Kettle #1 Ultra Low Sulfur Distillate Fuel Oil combustion emissions - E3-CD1-PT3-PT4	Normal - Steady State	E3	CD1 (P)	PT3 PT4	3-05-015-11	0.0	8,760.0		14,000.0	16,000.0	720.0	1,140.0
OS3 OS2	IKDC	Kettle #1 emissions Only - E3-CD1-PT4	Normal - Steady State	E3	CD1 (P)	PT4	3-05-015-11	0.0	8,760.0		11,500.0 4,900	12,500.0	220.0	350.0
OS4 OS3	2KF-NG	Kettle #2 Natural Gas combustion emissions - E4-CD2-PT5-PT6	Normal - Steady State	E4	CD2 (P)	PT5 PT6	3-05-015-11	0.0	8,000.0 8,760		14,000.0	16,000.0	220.0	900.0
OS5	2KF-DFO	Kettle #2 Ultra Low Sulfur Distillate Fuel Oil combustion emissions - E4-CD2-PT5-PT6	Normal - Steady State	E4	CD2 (P)	PT5 PT6	3-05-015-11	0.0	8,000.0		14,000.0	16,000.0	220.0	900.0
OS6 OS4	2KDC	Kettle #2 emissions only - E4-CD2-PT6	Normal - Steady State	E4	CD2 (P)	PT6	3-05-015-11	0.0	8,000.0 8,760		11,500.0	12,500.0	220.0	240.0
OS7 OS5	3KF-NG	Kettle #3 Natural Gas combustion emissions - E5-CD3-PT7-PT8	Normal - Steady State	E5	CD3 (P)	PT7 PT8	3-05-015-11	0.0	8,000.0 8,760		13,500.0	16,000.0	210.0	900.0
OS8	3KF-DFO	Kettle #3 Ultra Low Sulfur Distillate Fuel Oil combustion emissions - E5-CD3-PT7-PT8	Normal - Steady State	E5	CD3 (P)	PT7 PT8	3-05-015-11	0.0	8,000.0		13,500.0	16,000.0	210.0	900.0
OS9 OS6	3KDC	Kettle #3 emissions only - E5-CD3-PT8	Normal - Steady State	E5	CD3 (P)	PT8	3-05-015-11	0.0	8,000.0 8,760		11,500.0	12,500.0	220.0	240.0

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Emission Unit/Batch Process Inventory

U 6 OB1 Boiler for Office Heat

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	OB1-nat. gas	Office Heat Boiler - Natural Gas - E6-PT9	Normal - Steady State	E6		PT9	3-05-015-03	0.0	8,760.0		11,000.0	12,500.0	210.0	250.0

~~U 8 PWH1 Process Water Heater~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	PWH1-NG	Burning Natural Gas fuel E8-PT13	Normal - Steady State	E8		PT13	3-05-015-03	0.0	8,760.0		580.0	630.0	575.0	625.0
OS2	PWH1-#2FO	Burning #2 fuel oil E8-PT13 (emergency use State only per MACT Subpart JJJJJ)	Normal - Steady State	E8		PT13	3-05-015-03	0.0	8,760.0		580.0	630.0	575.0	625.0

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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

~~U 9 AFT1 6,000 Gallon Soap Solution Tank containing ethanol~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	AFT-6000	6000-gal. storage tank for soap solution with ethanol -E9 PT14	Normal Steady State	E9		PT14	3-05-999-99	0.0	8,760.0		25.0	100.0	50.0	90.0

~~U 10 ESDC Board End Saw used for cutting gypsum board to ordered size~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	ES	Board end saw -E10 CD4-PT15	Normal Steady State	E10	CD4 (P)	PT15	3-05-999-99	0.0	8,000.0		3,600.0	4,000.0	40.0	100.0

~~U 11 RD Rotary Rock Dryer, Conveyor #8B, Load Skirt and Conveyor #8A Source Skirt and Discharge Screw~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	RD-ng	Rotary dryer used to dry gypsum rock firing natural gas -E11 CD5 PT16	Normal Steady State	E11	CD5 (P)	PT16	3-05-015-01	0.0	8,760.0		0.0	45,000.0	180.0	250.0

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Emission Unit/Batch Process Inventory

U 11 RD Rotary Rock Dryer, Conveyor #8B, - Load Skirt and Conveyor #8A - Source Skirt and Discharge Screw

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCCA	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	RD #2 oil	Rotary dryer used to dry gypsum rock firing No. 2 fuel oil - E11-CD5-PT16	Normal - Steady State	E11	CD5 (P)	PT16	3-05-015-01	0.0	8,760.0		0.0	45,000.0	180.0	250.0
OS3	1C8B	Belt conveyor #8B - Load Skirt - E12-CD5-PT16	Normal - Steady State	E12	CD5 (P)	PT16	3-05-015-04	0.0	8,760.0		0.0	1,000.0	60.0	100.0
OS4	2C8A	Belt conveyor #8A - Discharge Chute - E13-CD5-PT16	Normal - Steady State	E13	CD5 (P)	PT16	3-05-015-04	0.0	8,760.0		0.0	1,000.0	60.0	100.0
OS5	3C8A	Belt conveyor #8A - Load skirt - E65-CD5-PT16	Normal - Steady State	E65	CD5 (P)	PT16	3-05-015-04	0.0	8,760.0		0.0	1,000.0	60.0	100.0

U 14 LPRB-LPBL LP Reserve Bin and Landplaster Bulk Loading

NJID UOS	Designation Facility's	Description UOS	Type Operation	Equip. Signif.	Device(s) Control	Point(s) Emission	SCCA	Annual Oper. Hours		Range VOC	Min. Flow (acfm)	Max. Flow (acfm)	Min. Temp. (deg F)	
								Min.	Max.				Min.	Max.
OS1	LPSB	Landplaster storage bin - E14-CD6-PT17	Normal - Steady State	E14	CD6 (P)	PT17	3-05-015-03	0.0	8,760.0		0.0	2,400.0 1,495	20.02 7.4	100.0
OS2	LPBL	Bulk loading of landplaster - E38-CD6-PT17	Normal - Steady State	E38	CD6 (P)	PT17	3-05-015-03	0.0	8,760.0		0.0	2,400.0 1,000	20.02 7.4	100.0
							3-05-999-99							

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Emission Unit/Batch Process Inventory

~~U15 WEDC Stucco Supply Elevator, Stucco Recirc. Elevator, Dry Additive Elevator, Scalping Screw, Weigh Belt Feeder~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
							Min.	Max.		Min.	Max.	Min.	Max.
OS1	WEDC-SSE	Stucco supply elevator— E15-CD7-VENT INDOOR	Normal—Steady State	E15	CD7 (P)	3-05-999-99	0.0	8,760.0		150.0	250.0	130.0	150.0
OS2	WEDC-SRE	Stucco recirculating elevator— E16-CD33-VENT INDOOR	Normal—Steady State	E16	CD33 (P)	3-05-999-99	0.0	8,760.0		150.0	250.0	130.0	150.0
OS3	WEDC-SSS	Stucco Scalping Screw— E66-CD32-VENT INDOOR	Normal—Steady State	E66	CD32 (P)	3-05-999-99	0.0	8,760.0		400.0	500.0	130.0	150.0
OS4	WEDC-DAE	Dry Additives Elevator— E59-CD34-VENT INDOOR	Normal—Steady State	E59	CD34 (P)	3-05-999-99	0.0	8,760.0		800.0	1,200.0	130.0	150.0
OS5	WEDC-SWBF	Stucco Weigh Belt Feeder —E67-CD32-VENT INDOOR	Normal—Steady State	E67	CD32 (P)	3-05-999-99	0.0	8,760.0		400.0	500.0	130.0	150.0

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Emission Unit/Batch Process Inventory

~~U 17 LPA1 Landplaster Pneumatic Conveying Process~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow- (acfm)		Temp- (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	LPA1	Landplaster pneumatic conveyor - E17-CD8-Vent Indoors	Normal - Steady State	E17	CD8 (P)		3-08-999-99	0.0	792.0		450.0	500.0	40.0	100.0

~~U 18 SMS1 Stucco Mixing Screw Conveyor~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow- (acfm)		Temp- (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	SMS1	Stucco mixing screw conveyor - E18-CD9-vent indoors	Normal - Steady State	E18	CD9 (P)		3-05-999-99	0.0	8,000.0		160.0	200.0	40.0	100.0

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Emission Unit/Batch Process Inventory

~~U 19 BPS1 Board Stucco Silo #1~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow- (acfm)		Temp- (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	BPS1	Board stucco silo #1— E19-CD10-PT21(venting indoors)	Normal—Steady State	E19	CD10 (P)		3-05-999-99	0.0	8,200.0		160.0	200.0	40.0	100.0

~~U 20 BPS2 Board Stucco Silo #2~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow- (acfm)		Temp- (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	BPS2	Board stucco silo #2— E20-CD11-PT22(vent indoors)	Normal—Steady State	E20	CD11 (P)		3-05-999-99	0.0	8,200.0		160.0	200.0	40.0	100.0

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Emission Unit/Batch Process Inventory

~~U 21 441C 441 Screw Conveyor~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	441ScrewConv	441 Screw Conveyor - E21 CD12 PT23 Vent Indoors	Normal - Steady State	E21	CD12 (P)		3-05-999-99	0.0	8,200.0		160.0	300.0	40.0	100.0

U 22 SRB1 Stucco Reserve Bin #1

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	SRB1	Stucco reserve bin #1 - E22-CD13-VENT INDOORS	Normal - Steady State	E22	CD13 (P)		3-05-999-99	0.0	500.0 8,760		160.0	200 220.0	40.0 27. 4	100.0

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~~U 23 PMV1 Pin Mixer~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	PinMixer	Pin Mixer - E23-CD14-VENT INDOOR	Normal - Steady State	E23	CD14 (P)		3-05-999-99	0.0	8,160.0		320.0	350.0	40.0	100.0

U 24 RM1and RM2 Raymond Mill #1 and Raymond Mill #2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	RM1-NG	60" Raymond Mill #1 - NG Fuel - E24-CD16-PT26	Normal - Steady State	E24	CD16 (P)	PT26	3-05-015-02	0.0	8,760.0		9,500.0	10,000.0	150.0	200.0
OS2	RM1-#2oil	60" Raymond Mill #1 - #2 Distillate oil - E24-CD16-PT26	Normal - Steady State	E24	CD16 (P)	PT26	3-05-015-02	0.0	8,760.0		9,500.0	10,000.0	150.0	200.0
OS3 OS2	RM2-NG	60" Raymond Mill #2 - NG Fuel - E25-CD18-PT27	Normal - Steady State	E25	CD18 (P)	PT27	3-05-015-02	0.0	8,760.0		9,500.0	10,000.0	150.0	200.0
OS4	RM2-#2oil	60" Raymond Mill #2 - #2 Distillate oil - E25-CD18-PT27	Normal - Steady State	E25	CD18 (P)	PT27	3-05-015-02	0.0	8,760.0		9,500.0	10,000.0	150.0	200.0

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Emission Unit/Batch Process Inventory

U 26 4RB Portland Cement Bin (aka Reserve Bin #4)

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	4RB	Portland Cement Bin (originally Reserve Bin #4) - E26-CD19-VENT INDOOR	Normal - Steady State	E26	CD19 (P)		3-05-999-99	0.0	8,760.0		275.0	750 950.0	115 27.4	135.0

U 27 LPB1 Landplaster Bin #1

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	LPB1	Landplaster Bin #1 - E27-CD20-vent indoors	Normal - Steady State	E27	CD20 (P)		3-05-999-99	0.0	8,000.0		180.0	200.0	110 27.4	140.0

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U 28 LPB2 Landplaster Bin #2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	LPB2	Landplaster Bin #2 - E28-CD21-vent indoors	Normal - Steady State	E28	CD21 (P)		3-05-999-99	0.0	8,200.0		180.0	200.0	110.0 27.4	140.0

U 29 LPB3 Landplaster Bin #3

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	LPB3	Landplaster Bin #3 - E29-CD22-vent indoors	Normal - Steady State	E29	CD22 (P)		3-05-999-99	0.0	8,200.0		180.0	200.0	110.0 27.4	140.0

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Emission Unit/Batch Process Inventory

U 30 SRB3-MPB1 Moulding Plaster Bin / ~~Stucco Reserve Bin #3~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCCA	Annual Oper. Hours Min.	Max.	VOC Range	Flow (acfm) Min.	Max.	Temp. (deg F) Min.	Max.
OS1	SRB3-MPB1	Moulding Plaster Bin #3 (aka Stucco Reserve Bin #3) - E30-CD23-PT32(venting indoors)	Normal - Steady State	E30	CD23 (P)		3-05-999-99	0.0	8,760.0 8,760		160.0	200.0 220.0	40.0 74	100.0
OS2	MPBE	Moulding Plaster Bin Elevator - E61-CD23-PT32(venting indoors)	Normal - Steady State	E61	CD23 (P)		3-05-999-99	0.0	8,760.0		160.0	200.0 220.0	40.0 74	100.0

U 31 SC Stucco Cooling

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCCA	Annual Oper. Hours Min.	Max.	VOC Range	Flow (acfm) Min.	Max.	Temp. (deg F) Min.	Max.
OS1	SC-#1EDS	Stucco Cooler - #1 Elevator Discharge Screw	Normal - Steady State	E31	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS2	SC-#1CS	Stucco Cooler - #1 Collecting Screw	Normal - Steady State	E32	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS3	SC-#1XS	Stucco Cooler - #1 Cross Screw	Normal - Steady State	E33	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS4	SC-#2EDS	Stucco Cooler - #2 Elevator Discharge Screw	Normal - Steady State	E34	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS5	SC-#2CS	Stucco Cooler - #2 Collecting Screw	Normal - Steady State	E35	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0

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U 31 SC Stucco Cooling

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS6	SC-#2XS	Stucco Cooler - #2 Cross Screw	Normal - Steady State	E36	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS7	SC-#430CS	Stucco Cooler - #430 Conveyor Screw	Normal - Steady State	E37	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS8	BSLS	Bulk Stucco Loading Spout	Normal - Steady State	E71	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS9	BSHE	Bulk Stucco Handling Elevator	Normal - Steady State	E57	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS10	BSHS	Bulk Stucco Handling Sifter	Normal - Steady State	E58	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0
OS11	Barrel Separ	Barrel Separator	Normal - Steady State	E106	CD24 (P)	PT33	3-05-999-99	0.0	8,760.0		0.0	8,000.0 5,551	160.0 98	190.0

U 34 RF Reclaim Feeder and Belt Conveyor

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	RFeeder	Reclaim Feeder and Belt Conveyor- Feeder for shredding wallboard - E40-PT34	Normal - Steady State	E40		PT34	3-05-999-99	0.0	8,760.0		40.0	100.0	20.0 27.4	100.0

GEORGIA-PACIFIC GYPSUM LLC (51611)

Date: 11/29/2021

BOP190005

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 34 RF Reclaim Feeder and Belt Conveyor

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	Reclaim Conv	Reclaim Belt Conveyor	Normal - Steady State	E104		PT104		0.0	8,760.0		40.0	100.0	20.0 27.4	100.0

U 35 DCB ~~Dens-Cal~~Alpha Feed Bin

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1 Steady	DCB	Storage of Dens-Cal Alpha in Bin	Normal - - E42-CD25-vents indoor State	E42	CD25 (P)		3-05-999-99	0.0	8,760.0		100.0	300.0 950	70.0 27.4	70.0 100

U 36 B/P System Blender/Packer System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	BPacker	Bag Packer - E43-CD26-PT36	Normal - Steady State	E43	CD26 (P)	PT36	3-05-999-99	0.0	8,760.0		3,000.0	5,000.0	70.0 27.4	110.0

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 36 B/P System Blender/Packer System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	Blend-Weigh	Bulk Plaster Blender and Weigher - E44-CD26-PT36	Normal - Steady State	E44	CD26 (P)	PT36	3-05-999-99	0.0	8,760.0		3,000.0	5,000.0 3,239	70.0 7.4	110.0
OS3	#1RockBinTra	#1 Rock Bin Transfer - 11 Belt - E45-CD26-PT36	Normal - Steady State	E45	CD26 (P)	PT36	3-05-999-99	0.0	1,825.0		3,000.0	5,000.0 3,239	27.4 0	110.0
OS4	#2RockBinTra	#2 Rock Bin Transfer - 11 Belt - E46-CD26-PT36	Normal - Steady State	E46	CD26 (P)	PT36	3-05-999-99	0.0	1,825.0		3,000.0	5,000.0 3,239	27.4 0	110.0
OS5	RockTransfer	Rock Transfer - 10 Belt to 11 Belt - E47-CD26-PT36	Normal - Steady State	E47	CD26 (P)	PT36	3-05-999-99	0.0	3,650.0		3,000.0	5,000.0 3,239	27.4 0	110.0
OS6	Bag Packer 2	Bag Packer - E102-CD26-PT36	Normal - Steady State	E102	CD26 (P)	PT36	3-05-999-99	0.0	8,760.0		3,000.0	5,000.0 3,239	27.4 0	110.0
OS7	Supersac	Supersac Loading	Normal - Steady State	E103	CD26 (P)	PT36	3-05-999-99	0.0	8,760.0		3,000.0	5,000.0 3,239	70.0 27.4	110.0

~~U 37 LPB4 Landplaster Bin #4 (aka Board Plant Landplaster Bin)~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	LPB4	Landplaster Bin #4 - E48- CD27-vent indoors	Normal - Steady State	E48	CD27 (P)		3-05-999-99	0.0	8,760.0		100.0	300.0	70.0	70.0

GEORGIA-PACIFIC GYPSUM LLC (51611)
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Date: 11/29/2021

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 38 IM Impact Mill

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	IM#1	Impact Mill #1	Normal - Steady State	E49	CD28 (P)		3-05-999-99	0.0	7,333.0		0.0	1,200.0	70.0 27.4	70.0 100
OS2	IM#2	Impact Mill #2	Normal - Steady State	E70	CD28 (P)		3-05-999-99	0.0	7,333.0		0.0	1,200.0	70.0 27.4	70.0 100
OS3	MPBE	Moulding Plaster Bin Elevator - E61-CD31 (venting indoors)	Normal - Steady State	E61	CD28 (P)		3-05-999-99	0.0	8,760.0		0.0	1,200.0	70.0	70.0

U 39 SDS Impact Mill Screen

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	SDS	Impact Mill Screen - E50-CD29-vent indoors	Normal - Steady State	E50	CD29 (P)		3-05-999-99	0.0	8,760.0		100.0	300.0	70.0 27.4	70.0 100

GEORGIA-PACIFIC GYPSUM LLC (51611)
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Date: 11/29/2021

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 40 SRB2 Stucco Reserve Bin #2

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	SRB2	#2 Stucco Reserve Bin - E51-CD30-vent indoors	Normal - Steady State	E51	CD30 (P)		3-05-999-99	0.0	8,760.0		100.0	300.0	27.4 100.0	150.0

U 41 IMFB Impact Mill Feed Bin

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	IMFB	Feed Bin to the Impact Mill - E52-CD31-(vent indoors)	Normal - Steady State	E52	CD31 (P)		3-05-999-99	0.0	8,760.0		100.0	300.0	27.4 0.0	70.0 100
OS2	IMFBE	Impact Mill Feed Bin Elevator - E60-CD31- (vent indoors)	Normal - Steady State	E60	CD31 (P)			0.0	8,760.0		100.0	300.0	27.4 0.0	70.0 100

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New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

~~U 42 BM Ball Mills 1-4~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	BM1	Ball Mill 1— E53-CD37-vent indoors	Normal—Steady State	E53	CD37 (P)		3-05-999-99	0.0	8,760.0		0.0	1,200.0	35.0	110.0
OS2	BM2	Ball Mill 2— E54-CD37-vent indoors	Normal—Steady State	E54	CD37 (P)		3-05-999-99	0.0	8,760.0		0.0	1,200.0	35.0	110.0
OS3	BM3	Ball Mill 3— E55-CD37-vent indoors	Normal—Steady State	E55	CD37 (P)		3-05-999-99	0.0	8,760.0		0.0	1,200.0	35.0	110.0
OS4	BM4	Ball Mill 4— E56-CD37-vent indoors	Normal—Steady State	E56	CD37 (P)		3-05-999-99	0.0	8,760.0		0.0	1,200.0	35.0	110.0

~~U 43 Wet End Vac Wet End Vacuum System~~

UOS- NJID	Facility's- Designation	UOS Description	Operation Type	Signif.- Equip.	Control- Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Wet End Vac	Wet End Vacuum System -E68-CD35-PT51	Normal—Steady State	E68	CD35 (P)	PT51	3-05-999-99	0.0	8,760.0		8,000.0	10,000.0	35.0	120.0

GEORGIA-PACIFIC GYPSUM LLC (51611)
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Date: 11/29/2021

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 47 Reject Bin Reject Bin Dust Collector

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Reject Bin	Reject Bin Dust Collector - VENTS INDOORS	Normal - Steady State	E75	CD39 (P)		3-05-015-03	0.0	8,760.0		200.0	300.0	27.4 200.0	350.0

U 51 Crshr/Trnsfr Crusher Building and Transfer Tower

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	#7 Belt	#7 Belt	Normal - Steady State	E107		PT107		0.0	8,760.0				70.0 27.4	70.0 100
						PT108								
OS2	#8 Belt	#8 Belt	Normal - Steady State	E108		PT107		0.0	8,760.0				70.0 27.4	70.0 100
						PT108								
OS3	#9 Belt	#9 Belt	Normal - Steady State	E109		PT107		0.0	8,760.0				70.0 27.4	70.0 100
						PT108								
OS4	#10 Belt	#10 Belt	Normal - Steady State	E110		PT109		0.0	8,760.0				70.0 27.4	70.0 100
						PT110								
OS5	#11 Belt	#11 Belt	Normal - Steady State	E111		PT109		0.0	8,760.0				70.0 27.4	70.0 100
						PT110								

GEORGIA-PACIFIC GYPSUM LLC (51611)
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Date: 11/29/2021

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

~~U 52 Auger #1 Temporary Discharge Auger #1~~

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual		Flow		Temp.	
								Oper. Hours	VOC	(acfm)	(deg F)	Min.	Max.
Min.	Max.	Range	Min.	Max.	Min.	Max.							
OS1	Auger #1	7" horizontal auger, 9" diagonal auger; 240 RPM; 6-10 tons/hr	Normal - Steady State	E112				0.0	960.0				

U 53 DeLumper Franklin Miller DeLumper

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual		VOC Range	Flow (acfm)		Temp. (deg F)	
								Oper. Hours	Max.		Min.	Max.	Min.	Max.
Min.	Max.													
OS1	Hopper	Feed Hopper - Fugitive emissions from building openings	Normal - Steady State	E113		PT111		0.0	8,760.0		0.0	1.3	20.0	110.0
OS2	Delump-Auger	Delumper/Discharge Auger - Fugitive emissions from building openings	Normal - Steady State	E114		PT111		0.0	8,760.0		0.0	1.3	20.0	110.0

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 54 Resin Ext Resin Extrusion Process

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCCA	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	VacuumLoader	Vacuum Loader	Normal - Steady State	E115		PT115		0.0	8,760.0		0.0	50.0	50.0	70.0
OS2	Hopper Dryer	Hopper Dryer	Normal - Steady State	E116		PT115		0.0	8,760.0		0.0	50.0	50.0	70.0
OS3	PigmentFeed1	Pigment Feeder 1	Normal - Steady State	E117		PT115		0.0	8,760.0		0.0	50.0	50.0	70.0
OS4	PigmentFeed2	Pigment Feeder 2	Normal - Steady State	E118		PT115		0.0	8,760.0		0.0	50.0	50.0	70.0
OS5	ResinExtrude	Resin Extruder	Normal - Steady State	E119	CD40 (P)	PT119		0.0	8,760.0	A	3,300.0	5,800.0	60.0	150.0
OS6	CoolingSys	Cooling Tower / Cooling Water Tank	Normal - Steady State	E120		PT120		0.0	8,760.0		0.0	10,600.0	60.0	100.0
OS7	PP Silo	Polypropylene Pellet Silo	Normal - Steady State	E121	CD41 (P) CD42 (P) CD43 (P)	PT151		0.0	8,760.0		900.0	1,200.0	70.0	100.0

Worksheet 5
Monthly Inspection Checklist
G-P Gypsum
Camden, New Jersey

<input type="checkbox"/> Dry Weather Inspection					<input type="checkbox"/> Wet Weather Inspection				
Inspected By: Title:					Date:				
Item No.	Item	N/A	Y	N	Comments/Resolution of Problems				
Note: For any item answered "N", describe in the right-hand column.									
MATERIAL STORAGE PILES					TITLE V DUST MANAGEMENT PLAN				
	Are fugitive emissions from ship unloading occurring?								
	Are fugitive emissions from excessive wind/weather disturbances of pile occurring?								
	Are fugitive emissions from removal of material from piles occurring?								
	Is effective housekeeping occurring?								
Corrective Action Procedures									
<input type="checkbox"/> Immediate Response 1. Immediately utilizing available personnel. Supervisor initiating corrective action: _____					<input type="checkbox"/> Not Applicable				
<input type="checkbox"/> Inspector Recommending Follow-up Actions 1. To be corrected outside of the shift the problem was noted. WO#: _____									
MATERIAL HANDLING					TITLE V DUST MANAGEMENT PLAN				
	Are fugitive emission from loading operations occurring?								
	Are fugitive emissions from transfer operations occurring?								
	Are fugitive emissions from conveying operations occurring?								
	Are fugitive emissions from unloading operations occurring?								
	Is housekeeping at material handling occurring?								
Corrective Action Procedures									
<input type="checkbox"/> Immediate Response 1. Immediately utilizing available personnel. Supervisor initiating corrective action: _____					<input type="checkbox"/> Not Applicable				
<input type="checkbox"/> Inspector Recommending Follow-up Actions 1. To be corrected outside of the shift the problem was noted. WO#: _____									
UNPAVED SURFACES					TITLE V DUST MANAGEMENT PLAN				
	Are fugitive emissions at unpaved surfaces occurring?								
	Is there evidence of housekeeping?								
Corrective Action Procedures									
<input type="checkbox"/> Immediate Response 1. Immediately utilizing available personnel. Supervisor initiating corrective action: _____					<input type="checkbox"/> Not Applicable				
<input type="checkbox"/> Inspector Recommending Follow-up Actions 1. To be corrected outside of the shift the problem was noted. WO#: _____									
PAVED SURFACES					TITLE V DUST MANAGEMENT PLAN				
	Is carryout/tracking of mud/dirt from unpaved surfaces present?								
	Does dedicated mobile equipment remain within the gypsum storage pile?								
	Are wind-blown fugitive emissions being caused by nearby sources, not attributed to Georgia-Pacific activities?								
	Is there evidence of housekeeping of paved surfaces?								
Corrective Action Procedures									
<input type="checkbox"/> Immediate Response 1. Immediately utilizing available personnel. Supervisor initiating corrective action: _____					<input type="checkbox"/> Not Applicable				
<input type="checkbox"/> Inspector Recommending Follow-up Actions 1. To be corrected outside of the shift the problem was noted. WO#: _____									
GOOD HOUSEKEEPING					TITLE V DUST MANAGEMENT PLAN				
	Are storage areas of materials, bags, and drums neat & orderly?								
	Is regular cleanup of material spillage, inside and outside of the process building occurring?								
	Is sweeping around obstacles in the paved road surface areas being completed (weather permitting)?								

Appendix A

	Is training provided to employees about good housekeeping?				
	[True (Y) or False (N)]: Monthly inspections of indoor and outdoor plant are completed and identify areas that may require additional attention.				
MONTHLY INSPECTION PROGRAM - GENERAL					TITLE V DUST MANAGEMENT PLAN
	Do these areas have the potential to cause fugitive emissions?				
	Material storage & handling areas				
	Loading & unloading areas?				
	Process areas?				
	Control equipment (bin vents/ dust collectors)?				
	Are the control measures overall effective?				
	Generally, are the good housekeeping practices overall effective?				
Corrective Action Procedures <input type="checkbox"/> Not Applicable					
<input type="checkbox"/> Immediate Response 1. Immediately utilizing available personnel. Supervisor initiating corrective action: _____					
<input type="checkbox"/> Inspector Recommending Follow-up Actions 1. To be corrected outside of the shift the problem was noted. WO#: _____					
PNEUMATIC SYSTEMS (CONTROL EQUIPMENT)					TITLE V DUST MANAGEMENT PLAN
U2 Kettle 1: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U2 Kettle 2: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U2 Kettle #3: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U14 LP Bin #4: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U22 Stucco Reserve Bin #1: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U24 Raymond Mill #1: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U24 Raymond Mill #2: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U26 Portland Cement Bin: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U27 LP Bin #1: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U28 LP Bin #2: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U29 LP Bin #3: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U30 Molding Plaster Bin: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U31 Stucco Cooling: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U35 Alpha Feed Bin: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U36 Underlayment/Rock Bin: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U38 Impact Mill: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U39 Impact Mill Screener: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U40 Stucco Reserve Bin #2: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U41 Impact Mill Feed Bin: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U___ Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U___ Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U___ Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U___ Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U___ Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
U___ Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U___ Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>		U___ Other: _____: OK <input type="checkbox"/> FIX <input type="checkbox"/>	
PN-1	Are blow pipes or cyclones free of leaks and fugitive emissions?				
PN-2	Are the tops of cyclones free of visible excess dusting?				
PN-3	Are hi-pressure feeders free of blow-by and not dusting?				
PN-4	[True (Y) or False (N)]: There is not excessive pressure drop across any bag filters. If false, bags may be plugged up and require cleaning.				
PN-5	Are the bag filter clean air discharges free of visible dusting? (Predicts overall effectiveness of control measure.)				
PN-6	Are all inspection doors or covers closed tightly?				
PN-7	Are all rotary seal valves operating properly?				
PN-8	[True (Y) or False (N)]: No collectors and/or filters are known to be bypassed. (if false, report immediately to Environmental Coordinator.)				
Corrective Action Procedures <input type="checkbox"/> Not Applicable					
<input type="checkbox"/> Immediate Response 1. Immediately utilizing available personnel. Supervisor initiating corrective action: _____					
<input type="checkbox"/> Inspector Recommending Follow-up Actions 1. To be corrected outside of the shift the problem was noted. WO#: _____					

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Raymond Mill #1 and Raymond Mill #2
Emission Unit No.: U24

Natural Gas Combustion Emissions (Operating Scenario 1)

Control Device No.: CD16, CD18
Equipment No.: E24, E25
Emission Point No.: PT26, PT27

Maximum Natural Gas Firing Rate: 5.0 MMBtu/hr/mill
72,855 MMBtu/yr for both mills combined
Maximum Annual Operation: 14,571 hrs/yr for both mills combined

Baghouse Exhaust Flow Rate: 10,000 acfm/baghouse
Exhaust Temperature: 150 °F
Exhaust Moisture Content: 2.0%
Baghouse Exhaust Flow Rate: 8,515 dscfm/baghouse
Baghouse Maximum Annual Operation: 8,760 hrs/yr/each baghou:

Pollutant	HAP	Natural Gas Combustion			Process			Hourly Emissions	Hourly Emissions	Annual
		Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Emission Factor	Emission Factor Units	Reference	for Raymond Mill #1 (lb/hr)	for Raymond Mill #2 (lb/hr)	Emissions for Both Raymond Mills Combined
Criteria Pollutants										
CO	--	--	0.148	A				0.74	0.74	5.39
NOx	--	--	0.0605	A				0.30	0.30	2.20
Pb	--	5.00E-04	4.90E-07	B				2.45E-06	2.45E-06	1.79E-05
CPM	--	5.7	5.59E-03	B	0.0015	gr/dscf	E	0.14	0.14	0.20
FPM	--	1.9	1.86E-03	B	0.0024	gr/dscf	F	0.18	0.18	1.60
FPM ₁₀	--	1.9	1.86E-03	B	0.0024	gr/dscf	F	0.18	0.18	1.60
FPM _{2.5}	--	1.9	1.86E-03	B	0.0024	gr/dscf	F	0.18	0.18	1.60
TSP*	--	1.9	0.0019	B	0.0024	gr/dscf	G	0.18	0.18	1.60
Total PM ₁₀	--	7.6	0.0075	B	0.0039	gr/dscf	G	0.32	0.32	2.77
Total PM _{2.5}	--	7.6	0.0075	B	0.0039	gr/dscf	G	0.32	0.32	2.77
SO ₂	--	0.6	5.88E-04	B				0.00	0.00	0.02
VOC	--	--	0.0212	A				0.11	0.11	0.77
Greenhouse Gases										
CO2e	--	--	117.10	C				585	585	4,266
Carbon dioxide	--	--	116.98	C				585	585	4,261
Methane	--	--	2.20E-03	C				1.10E-02	1.10E-02	8.03E-02
Nitrous oxide	--	--	2.20E-04	C				1.10E-03	1.10E-03	8.03E-03
Hazardous Air Pollutants										
Total HAP	--	--	1.85E-03	D				0.01	0.01	0.07
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	B				1.18E-07	1.18E-07	8.57E-07
Arsenic	Yes	2.00E-04	1.96E-07	B				9.80E-07	9.80E-07	7.14E-06
Benzene	Yes	2.10E-03	2.06E-06	B				1.03E-05	1.03E-05	7.50E-05
Cadmium	Yes	1.10E-03	1.08E-06	B				5.39E-06	5.39E-06	3.93E-05
Chromium	Yes	1.40E-03	1.37E-06	B				6.86E-06	6.86E-06	5.00E-05
Cobalt	Yes	8.40E-05	8.24E-08	B				4.12E-07	4.12E-07	3.00E-06
Dichlorobenzene	Yes	1.20E-03	1.18E-06	B				5.88E-06	5.88E-06	4.29E-05
Fluoranthene	Yes	3.00E-06	2.94E-09	B				1.47E-08	1.47E-08	1.07E-07
Fluorene	Yes	2.80E-06	2.75E-09	B				1.37E-08	1.37E-08	1.00E-07
Formaldehyde	Yes	7.50E-02	7.35E-05	B				3.68E-04	3.68E-04	2.68E-03
Hexane	Yes	1.8	1.76E-03	B				8.82E-03	8.82E-03	6.43E-02
Manganese	Yes	3.80E-04	3.73E-07	B				1.86E-06	1.86E-06	1.36E-05
Mercury	Yes	2.60E-04	2.55E-07	B				1.27E-06	1.27E-06	9.29E-06
Naphthalene	Yes	6.10E-04	5.98E-07	B				2.99E-06	2.99E-06	2.18E-05
Nickel	Yes	2.10E-03	2.06E-06	B				1.03E-05	1.03E-05	7.50E-05
Phenanthrene	Yes	1.70E-05	1.67E-08	B				8.33E-08	8.33E-08	6.07E-07
POM	Yes	6.62E-04	6.49E-07	D				3.24E-06	3.24E-06	2.36E-05
Pyrene	Yes	5.00E-06	4.90E-09	B				2.45E-08	2.45E-08	1.79E-07
Toluene	Yes	3.40E-03	3.33E-06	B				1.67E-05	1.67E-05	1.21E-04

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

- A. Vendor estimates.
- B. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the AP-42 tables. All PM is assumed to be less than 1 micron diameter per AP-42; therefore PM₁₀ and PM_{2.5} emission factors are equal to the PM
- AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf
- C. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-1 were applied to calculate the CO₂e emission factor.
- D. Sum of speciated HAP and POM compounds.
- E. Emission factor developed based on stack test data from other GP sites.
- F. Vendor data.
- G. TSP is equivalent to FPM, Total PM10 is the sum of CPM and FPM10, and Total PM2.5 is the sum of CPM and FPM2.5.

Sample Calculations:

Hourly FPM Emissions for One Mill (lb/hr) = Combustion Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr) + Process Emission Factor (gr/dscf) / 7,000 (gr/lb) *
Hourly FPM Emissions for One Mill (lb/hr) = 1.86E-03 lb/MMBtu * 5.0 MMBtu/hr + 0.0024 gr/dscf / 7,000 gr/lb * 8,515 dscfm * 60 min/hr = 0.18 lb/hr

Annual FPM Emissions for Both Mills (tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 (lb/ton) + Process Emission Factor (gr/dscf) / 7,000 (gr/lb) *
Exhaust Flow Rate (dscfm) * 60 (min/hr) * Annual Operation (hr/yr) / 2,000 (lb/ton)

Annual FPM Emissions for Both Mills (tpy) = 1.86E-03 lb/MMBtu * 72,855 MMBtu/yr / 2,000 lb/ton + 0.0024 gr/dscf / 7,000 gr/lb * 8,515 dscfm/baghouse * 2 baghouses * 60 min/hr * 8,760 hr/yr /
2,000 lb/ton = 1.60 tpy

**ATTACHMENT F –
EMISSIONS CALCULATIONS**

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Emission Unit No.	Source Description	Emission Point No.	Potential to Emit (ton/yr)									
			CO	NO _x	Pb	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC	CO ₂ e	HAP
Significant Emission Units												
U2	Kettle Calciner # 1	PT3 (Combustion gases) and PT4 (CD1 Exhaust Point)	2.27	4.42	3.01E-05	0.11	0.46	0.46	0.04	1.04	7,180	0.11
		PT4 (CD1 Exhaust Point)				0.53	2.03	2.03				
	Kettle Calciner # 2	PT5 (Combustion gases) and PT6 (CD2 Exhaust Point)	5.05	6.01	3.01E-05	0.11	0.46	0.46	0.04	0.33	7,180	0.11
		PT6 (CD2 Exhaust Point)				0.53	2.03	2.03				
	Kettle Calciner # 3	PT7 (Combustion gases) and PT8 (CD3 Exhaust Point)	5.05	6.01	3.01E-05	0.11	0.46	0.46	0.04	0.33	7,180	0.11
		PT8 (CD3 Exhaust Point)				0.53	2.03	2.03				
U6	Boiler for Office Heat	PT9	0.90	1.07	5.37E-06	0.02	0.08	0.08	0.01	0.06	1,282	0.02
U14	Landplaster Bin #4	PT17				0.24	0.67	0.55				
	Landplaster Bulk Loading					0.00	0.00	0.00				
	Transfer to Truck	PT157				0.01	0.00	0.00				
	Wind Erosion from Open-Top Truck Loading					0.00	0.00	0.00				
U22	Stucco Reserve Bin #1	Vents Indoors				0.18	0.18	0.09				
U24	Raymond Mill #1	PT26	5.39	2.20	1.79E-05	1.60	2.77	2.77	0.02	0.77	4,266	0.07
	Raymond Mill #2	PT27										
U26	Portland Cement Bin	Vents Indoors				0.71	0.71	0.37				
U27	Landplaster Bin #1	Vents Indoors				0.16	0.16	0.09				
U28	Landplaster Bin #2	Vents Indoors				0.16	0.16	0.09				
U29	Landplaster Bin #3	Vents Indoors				0.16	0.16	0.09				
U30	Molding Plaster Bin	Vents Indoors				0.18	0.18	0.09				
	Molding Plaster Bin Elevator											
U31	Stucco Cooling	PT33				0.83	1.72	1.72				
U34	Reclaim Steele Feeder	PT34				1.18	0.56	0.08				
	Reclaim Belt Conveyor	PT104				0.07	0.02	0.02				
U35	Alpha Feed Bin	Vents Indoors				0.78	0.78	0.41				
U36	Underlayment/Rock Bins and Transfers	PT36				1.85	1.85	0.97				
	Transfer to Surge Bin 1	PT110				0.11	0.04	0.04				
	Transfer to Surge Bin 2					0.11	0.04	0.04				
U38	Impact Mill #1	Vents Indoors				0.98	0.98	0.51				
	Impact Mill #2	Vents Indoors				0.00	0.00	0.00				
U39	Impact Mill Screen	Vents Indoors				0.24	0.24	0.13				
U40	#2 Stucco Reserve Bin	Vents Indoors				0.24	0.24	0.13				
U41	Impact Mill Feed Bin	Vents Indoors				0.24	0.24	0.13				
	Impact Mill Feed Bin Elevator	Vents Indoors										
U47	Reject Bin	Vents Indoors				0.24	0.24	0.13				
U51	Crusher Building and Transfer Tower	PT153, PT107, PT108, PT109				0.32	0.12	0.12				
U53	Delumper	PT111				0.06	0.02	0.02				
U54	Vacuum Loader	PT115				2.49E-05	1.18E-05	1.78E-06				
	Hopper Dryer					2.23E-04	1.06E-04	1.60E-05				
	Pigment Feeder 1					1.01E-04	4.79E-05	7.26E-06				
	Pigment Feeder 2											
	Resin Extruder	PT119				0.26	0.26	0.26				
	Cooling Tower/Cooling Water Tank	PT120				4.07E-03	4.07E-03	4.07E-03				
Insignificant Emission Units												
IS5	Machine Shop Heater	N/A	0.18	0.21	1.07E-06	4.08E-03	0.02	0.02	1.29E-03	0.01	256.44	4.05E-03
IS6	Space Heaters - 17 Units	N/A	0.61	0.73	3.65E-06	0.01	0.06	0.06	4.38E-03	0.04	871.91	0.01
IS11	Storage/Use of Non-HAP VOC Containing Chemicals in Containers	N/A	Containers are closed other than when in use.									
IS13	2,500 Gallon Distillate Fuel Oil Storage Tank	N/A								6.53E-04		
IS26	Space Heaters - 4 Units	N/A	0.29	0.34	1.72E-06	0.01	0.03	0.03	2.06E-03	0.02	410.31	0.01
IS27	Bake-Off Oven	N/A	0.07							0.05		0.01
IS28	Auto-Winder	N/A				2.87E-05	2.87E-05	2.87E-05		7.42E-05		
Fugitive Emission Units												
FG1	Plant-Wide Particulate/Dust Fugitive Emissions from Truck Traffic	--				10.69	2.84	0.38				
FG2	Gypsum Storage Piles	--				4.51	2.66	1.25				
Sources/Activities Authorized under General Operating Permits												
E39	PP Resin Pellet Unloading/Packaging	--				2.47E-05	1.17E-05	1.77E-06				
Total			19.82	21.00	1.20E-04	28.10	25.52	18.13	0.14	2.66	28,628	0.46
Total without Fugitives (i.e., Truck Traffic and Storage Piles)**†			19.82	21.00	1.20E-04	12.90	20.02	16.50	0.14	2.66	28,628	0.46
PSD Major Source Thresholds (40 CFR § 51.166(b)(1)(i)(b))*			250	250	250	250	250	250	250	250	75,000	N/A
NNSR Major Source Thresholds (40 CFR §81.331)			N/A	25	N/A	N/A	N/A	N/A	N/A	25	N/A	N/A
Title V Major Source Limits (NJAC 7:27-22.2(a))*			100	25	10	100	100	100	100	25	N/A	10 / 25

†Per 40 CFR 52.21(b)(1), fugitive emissions shall be included in the potential to emit for only listed categories. Gypsum processing plants are not one of the listed categories. Therefore, the total emissions, excluding fugitives such as truck traffic and storage piles, should be used for comparison against the PSD major source thresholds.

†Per NJAC 7:27-22.2(a)2., fugitive emissions shall be included in the potential to emit for only listed categories. Gypsum processing plants are not one of the listed categories. Therefore, the total emissions, excluding fugitives such as truck traffic and storage piles, should be used for comparison against the Title V major source thresholds.

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 1

Emission Unit No.: U2

Natural Gas Combustion Emissions (Operating Scenario 1)

Control Device No.: N/A

Equipment No.: E3

Emission Point No.: PT3 (Combustion gases) and PT4 (CD1 Exhaust Point)

Maximum Natural Gas Firing Rate: 14.0 MMBtu/hr

122,640 MMBtu/yr

Maximum Annual Operation: 8,760 hrs/yr

Pollutant	HAP	Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CO	--	--	0.037	B	0.518	2.27
NOx	--	--	0.072	B	1.01	4.42
Pb	--	5.00E-04	4.90E-07	A	6.86E-06	3.01E-05
CPM	--	5.7	5.59E-03	A	0.08	0.34
FPM	--	1.9	1.86E-03	A	0.03	0.11
FPM ₁₀	--	1.9	1.86E-03	A	0.03	0.11
FPM _{2.5}	--	1.9	1.86E-03	A	0.03	0.11
TSP*	--	1.9	1.86E-03	A	0.03	0.11
Total PM ₁₀	--	7.6	7.45E-03	A	0.10	0.46
Total PM _{2.5}	--	7.6	7.45E-03	A	0.10	0.46
SO ₂	--	0.6	5.88E-04	A	0.01	0.04
VOC (methane)	--	--	0.017	B	0.238	1.04
Greenhouse Gases						
CO ₂ e	--	--	117.10	C	1,639	7,180
Carbon dioxide	--	--	116.98	C	1,638	7,173
Methane	--	--	2.20E-03	C	3.09E-02	1.35E-01
Nitrous oxide	--	--	2.20E-04	C	3.09E-03	1.35E-02
Hazardous Air Pollutants						
Total HAP	--	--	1.85E-03	D	0.03	0.11
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	A	3.29E-07	1.44E-06
Arsenic	Yes	2.00E-04	1.96E-07	A	2.75E-06	1.20E-05
Benzene	Yes	2.10E-03	2.06E-06	A	2.88E-05	1.26E-04
Cadmium	Yes	1.10E-03	1.08E-06	A	1.51E-05	6.61E-05
Chromium	Yes	1.40E-03	1.37E-06	A	1.92E-05	8.42E-05
Cobalt	Yes	8.40E-05	8.24E-08	A	1.15E-06	5.05E-06
Dichlorobenzene	Yes	1.20E-03	1.18E-06	A	1.65E-05	7.21E-05
Fluoranthene	Yes	3.00E-06	2.94E-09	A	4.12E-08	1.80E-07
Fluorene	Yes	2.80E-06	2.75E-09	A	3.84E-08	1.68E-07
Formaldehyde	Yes	7.50E-02	7.35E-05	A	1.03E-03	4.51E-03
Hexane	Yes	1.8	1.76E-03	A	2.47E-02	1.08E-01
Manganese	Yes	3.80E-04	3.73E-07	A	5.22E-06	2.28E-05
Mercury	Yes	2.60E-04	2.55E-07	A	3.57E-06	1.56E-05
Naphthalene	Yes	6.10E-04	5.98E-07	A	8.37E-06	3.67E-05
Nickel	Yes	2.10E-03	2.06E-06	A	2.88E-05	1.26E-04
Phenanthrene	Yes	1.70E-05	1.67E-08	A	2.33E-07	1.02E-06
POM	Yes	6.62E-04	6.49E-07	D	9.08E-06	3.98E-05
Pyrene	Yes	5.00E-06	4.90E-09	A	6.86E-08	3.01E-07
Toluene	Yes	3.40E-03	3.33E-06	A	4.67E-05	2.04E-04

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. A portion of the combustion gases vent through the baghouse that controls process emissions to ensure the baghouse temperatures remain high enough to work properly. However, all emissions resulting due to combustion gases are administratively reflected as being emitted at PT3 (as opposed to a portion at PT4).

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 1

Emission Unit No.: U2

References:

A. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the AP-42 tables. All PM is assumed to be less than 1 micron diameter per AP-42; therefore PM₁₀ and PM_{2.5} emission factors are equal to the PM emission factor.

AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf

B. Vendor supplied data (Hauck burners).

NO_x = 60 ppmv at 3% O₂ or 0.072 lb/MM Btu

CO = 50 ppmv @ 3% O₂, or 0.037 lb/MM Btu

VOCs = 40 ppmv @ 3% O₂, or 0.017 lb/MM Btu

C. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-1 were applied to calculate the CO₂e emission factor.

D. Sum of speciated HAP and POM compounds.

Sample Calculations:

Hourly CO Emissions (lb/hr) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr)

Hourly CO Emissions (lb/hr) = 0.037 lb/MMBtu * 14.0 MMBtu/hr = 0.518 lb/hr

Annual CO Emissions (tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 (lb/ton)

Annual CO Emissions (tpy) = 0.037 lb/ton * 122,640 MMBtu/yr / 2,000 lb/ton = 2.27 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 1

Emission Unit No.: U2

Process Emissions (Operating Scenario 3)

Control Device No.: CD1 (Baghouse)

Equipment No.: E3

Emission Point Nos.: PT4 (CD1 Exhaust Point)

Maximum Process Rate: 40,000 lbs/hr
20 tons/hr

Maximum Annual Operation: 175,200 tons/yr
8,760 hrs/yr

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CPM	--	1.72E-02	lb/ton	A	0.34	1.51
FPM	--	6.00E-03	lb/ton	B	0.12	0.53
FPM ₁₀	--	6.00E-03	lb/ton	B	0.12	0.53
FPM _{2.5}	--	6.00E-03	lb/ton	B	0.12	0.53
TSP*	--	See Reference C		C	0.12	0.53
Total PM ₁₀	--	See Reference C		C	0.46	2.03
Total PM _{2.5}	--	See Reference C		C	0.46	2.03

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. A portion of the combustion gases vent through the baghouse that controls process emissions to ensure the baghouse temperatures remain high enough to work properly. However, all emissions resulting due to combustion gases are administratively reflected as being emitted at PT3 (as opposed to a portion at PT4).

References:

- A. Emission factor developed based on stack test data from other GP sites.
B. AP-42, Table 11.16-2 (Fifth Edition, January 1995) for gypsum processing. No FPM10 emission factor is available. Therefore, FPM10 and FPM2.5 emissions are assumed equal to FPM.
C. TSP is equivalent to FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}.

Sample Calculations:

Hourly FPM Emissions (lb/hr) = Emission Factor (lb/ton) * Maximum Process Rate (ton/hr)

Hourly FPM Emissions (lb/hr) = 6.00E-03 lb/ton * 20 ton/hr = 0.12 lb/hr

Annual FPM Emissions (tpy) = Emission Factor (lb/ton) * Maximum Process Rate (ton/yr) / 2,000 (lb/ton)

Annual FPM Emissions (tpy) = 6.00E-03 lb/ton * 175,200 ton/yr / 2,000 lb/ton = 0.53 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 2

Emission Unit No.: U2

Natural Gas Combustion Emissions (Operating Scenario 4)

Control Device No.: N/A

Equipment No.: E4

Emission Point No.: PT5 (Combustion gases) and PT6 (CD2 Exhaust Point)

Maximum Natural Gas Firing Rate: 14.0 MMBtu/hr

122,640 MMBtu/yr

Maximum Annual Operation: 8,760 hrs/yr

Pollutant	HAP	Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CO	--	84	0.082	A	1.15	5.05
NOx	--	100	0.098	A	1.37	6.01
Pb	--	5.00E-04	4.90E-07	A	6.86E-06	3.01E-05
CPM	--	5.7	5.59E-03	A	0.08	0.34
FPM	--	1.9	1.86E-03	A	0.03	0.11
FPM ₁₀	--	1.9	1.86E-03	A	0.03	0.11
FPM _{2.5}	--	1.9	1.86E-03	A	0.03	0.11
TSP*	--	1.9	1.86E-03	A	0.03	0.11
Total PM ₁₀	--	7.6	7.45E-03	A	0.10	0.46
Total PM _{2.5}	--	7.6	7.45E-03	A	0.10	0.46
SO ₂	--	0.6	5.88E-04	A	0.01	0.04
VOC (methane)	--	5.5	0.005	A	0.08	0.33
Greenhouse Gases						
CO ₂ e	--	--	117.10	B	1,639	7,180
Carbon dioxide	--	--	116.98	B	1,638	7,173
Methane	--	--	2.20E-03	B	3.09E-02	1.35E-01
Nitrous oxide	--	--	2.20E-04	B	3.09E-03	1.35E-02
Hazardous Air Pollutants						
Total HAP	--	--	1.85E-03	C	0.03	0.11
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	A	3.29E-07	1.44E-06
Arsenic	Yes	2.00E-04	1.96E-07	A	2.75E-06	1.20E-05
Benzene	Yes	2.10E-03	2.06E-06	A	2.88E-05	1.26E-04
Cadmium	Yes	1.10E-03	1.08E-06	A	1.51E-05	6.61E-05
Chromium	Yes	1.40E-03	1.37E-06	A	1.92E-05	8.42E-05
Cobalt	Yes	8.40E-05	8.24E-08	A	1.15E-06	5.05E-06
Dichlorobenzene	Yes	1.20E-03	1.18E-06	A	1.65E-05	7.21E-05
Fluoranthene	Yes	3.00E-06	2.94E-09	A	4.12E-08	1.80E-07
Fluorene	Yes	2.80E-06	2.75E-09	A	3.84E-08	1.68E-07
Formaldehyde	Yes	7.50E-02	7.35E-05	A	1.03E-03	4.51E-03
Hexane	Yes	1.8	1.76E-03	A	2.47E-02	1.08E-01
Manganese	Yes	3.80E-04	3.73E-07	A	5.22E-06	2.28E-05
Mercury	Yes	2.60E-04	2.55E-07	A	3.57E-06	1.56E-05
Naphthalene	Yes	6.10E-04	5.98E-07	A	8.37E-06	3.67E-05
Nickel	Yes	2.10E-03	2.06E-06	A	2.88E-05	1.26E-04
Phenanthrene	Yes	1.70E-05	1.67E-08	A	2.33E-07	1.02E-06
POM	Yes	6.62E-04	6.49E-07	C	9.08E-06	3.98E-05
Pyrene	Yes	5.00E-06	4.90E-09	A	6.86E-08	3.01E-07
Toluene	Yes	3.40E-03	3.33E-06	A	4.67E-05	2.04E-04

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. A portion of the combustion gases vent through the baghouse that controls process emissions to ensure the baghouse temperatures remain high enough to work properly. However, all emissions resulting due to combustion gases are administratively reflected as being emitted at PT5 (as opposed to a portion at PT6).

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 2

Emission Unit No.: U2

References:

A. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the AP-42 tables. All PM is assumed to be less than 1 micron diameter per AP-42; therefore PM₁₀ and PM_{2.5} emission factors are equal to the PM emission factor.

AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf

B. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-1 were applied to calculate the CO₂e emission factor.

C. Sum of speciated HAP and POM compounds.

Sample Calculations:

Hourly CO Emissions (lb/hr) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr)

Hourly CO Emissions (lb/hr) = 0.082 lb/MMBtu * 14.0 MMBtu/hr = 1.15 lb/hr

Annual CO Emissions (tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 (lb/ton)

Annual CO Emissions (tpy) = 0.082 lb/ton * 122,640 MMBtu/yr / 2,000 lb/ton = 5.05 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 2

Emission Unit No.: U2

Process Emissions (Operating Scenario 6)

Control Device No.: CD2 (Baghouse)

Equipment No.: E4

Emission Point Nos.: PT6 (CD2 Exhaust Point)

Maximum Process Rate: 40,000 lbs/hr
20 tons/hr

Maximum Annual Operation: 175,200 tons/yr
8,760 hrs/yr

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CPM	--	1.72E-02	lb/ton	A	0.34	1.51
FPM	--	6.00E-03	lb/ton	B	0.12	0.53
FPM ₁₀	--	6.00E-03	lb/ton	B	0.12	0.53
FPM _{2.5}	--	6.00E-03	lb/ton	B	0.12	0.53
TSP*	--	See Reference C		C	0.12	0.53
Total PM ₁₀	--	See Reference C		C	0.46	2.03
Total PM _{2.5}	--	See Reference C		C	0.46	2.03

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. A portion of the combustion gases vent through the baghouse that controls process emissions to ensure the baghouse temperatures remain high enough to work properly. However, all emissions resulting due to combustion gases are administratively reflected as being emitted at PT5 (as opposed to a portion at PT6).

References:

A. Emission factor developed based on stack test data from other GP sites.

B. AP-42, Table 11.16-2 (Fifth Edition, January 1995) for gypsum processing. No FPM10 emission factor is available. Therefore, FPM10 and FPM2.5 emissions are assumed equal to FPM.

C. TSP is equivalent to FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}.

Sample Calculations:

Hourly FPM Emissions (lb/hr) = Emission Factor (lb/ton) * Maximum Process Rate (ton/hr)

Hourly FPM Emissions (lb/hr) = 6.00E-03 lb/ton * 20 ton/hr = 0.12 lb/hr

Annual FPM Emissions (tpy) = Emission Factor (lb/ton) * Maximum Process Rate (ton/yr) / 2,000 (lb/ton)

Annual FPM Emissions (tpy) = 6.00E-03 lb/ton * 175,200 ton/yr / 2,000 lb/ton = 0.53 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 3

Emission Unit No.: U2

Natural Gas Combustion Emissions (Operating Scenario 7)

Control Device No.: N/A

Equipment No.: E5

Emission Point No.: PT7 (Combustion gases) and PT8 (CD3 Exhaust Point)

Maximum Natural Gas Firing Rate: 14.0 MMBtu/hr

122,640 MMBtu/yr

Maximum Annual Operation: 8,760 hrs/yr

Pollutant	HAP	Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CO	--	84	0.082	A	1.15	5.05
NOx	--	100	0.098	A	1.37	6.01
Pb	--	5.00E-04	4.90E-07	A	6.86E-06	3.01E-05
CPM	--	5.7	5.59E-03	A	0.08	0.34
FPM	--	1.9	1.86E-03	A	0.03	0.11
FPM ₁₀	--	1.9	1.86E-03	A	0.03	0.11
FPM _{2.5}	--	1.9	1.86E-03	A	0.03	0.11
TSP*	--	1.9	1.86E-03	A	0.03	0.11
Total PM ₁₀	--	7.6	7.45E-03	A	0.10	0.46
Total PM _{2.5}	--	7.6	7.45E-03	A	0.10	0.46
SO ₂	--	0.6	5.88E-04	A	0.01	0.04
VOC (methane)	--	5.5	0.005	A	0.08	0.33
Greenhouse Gases						
CO ₂ e	--	--	117.10	B	1,639	7,180
Carbon dioxide	--	--	116.98	B	1,638	7,173
Methane	--	--	2.20E-03	B	3.09E-02	1.35E-01
Nitrous oxide	--	--	2.20E-04	B	3.09E-03	1.35E-02
Hazardous Air Pollutants						
Total HAP	--	--	1.85E-03	C	0.03	0.11
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	A	3.29E-07	1.44E-06
Arsenic	Yes	2.00E-04	1.96E-07	A	2.75E-06	1.20E-05
Benzene	Yes	2.10E-03	2.06E-06	A	2.88E-05	1.26E-04
Cadmium	Yes	1.10E-03	1.08E-06	A	1.51E-05	6.61E-05
Chromium	Yes	1.40E-03	1.37E-06	A	1.92E-05	8.42E-05
Cobalt	Yes	8.40E-05	8.24E-08	A	1.15E-06	5.05E-06
Dichlorobenzene	Yes	1.20E-03	1.18E-06	A	1.65E-05	7.21E-05
Fluoranthene	Yes	3.00E-06	2.94E-09	A	4.12E-08	1.80E-07
Fluorene	Yes	2.80E-06	2.75E-09	A	3.84E-08	1.68E-07
Formaldehyde	Yes	7.50E-02	7.35E-05	A	1.03E-03	4.51E-03
Hexane	Yes	1.8	1.76E-03	A	2.47E-02	1.08E-01
Manganese	Yes	3.80E-04	3.73E-07	A	5.22E-06	2.28E-05
Mercury	Yes	2.60E-04	2.55E-07	A	3.57E-06	1.56E-05
Naphthalene	Yes	6.10E-04	5.98E-07	A	8.37E-06	3.67E-05
Nickel	Yes	2.10E-03	2.06E-06	A	2.88E-05	1.26E-04
Phenanthrene	Yes	1.70E-05	1.67E-08	A	2.33E-07	1.02E-06
POM	Yes	6.62E-04	6.49E-07	C	9.08E-06	3.98E-05
Pyrene	Yes	5.00E-06	4.90E-09	A	6.86E-08	3.01E-07
Toluene	Yes	3.40E-03	3.33E-06	A	4.67E-05	2.04E-04

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 3

Emission Unit No.: U2

Notes:

1. A portion of the combustion gases vent through the baghouse that controls process emissions to ensure the baghouse temperatures remain high enough to work properly. However, all emissions resulting due to combustion gases are administratively reflected as being emitted at PT7 (as opposed to a portion at PT8).

References:

A. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the AP-42 tables. All PM is assumed to be less than 1 micron diameter per AP-42; therefore PM₁₀ and PM_{2.5} emission factors are equal to the PM emission factor.

AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf

B. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-1 were applied to calculate the CO₂e emission factor.

C. Sum of speciated HAP and POM compounds.

Sample Calculations:

Hourly CO Emissions (lb/hr) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr)

Hourly CO Emissions (lb/hr) = 0.082 lb/MMBtu * 14.0 MMBtu/hr = 1.15 lb/hr

Annual CO Emissions (tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 (lb/ton)

Annual CO Emissions (tpy) = 0.082 lb/ton * 122,640 MMBtu/yr / 2,000 lb/ton = 5.05 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner # 3

Emission Unit No.: U2

Process Emissions (Operating Scenario 9)

Control Device No.: CD3 (Baghouse)
 Equipment No.: E5
 Emission Point Nos.: PT8 (CD3 Exhaust Point)

Maximum Process Rate: 40,000 lbs/hr
 20 tons/hr

Maximum Annual Operation: 175,200 tons/yr
 8,760 hrs/yr

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CPM	--	1.72E-02	lb/ton	A	0.34	1.51
FPM	--	6.00E-03	lb/ton	B	0.12	0.53
FPM ₁₀	--	6.00E-03	lb/ton	B	0.12	0.53
FPM _{2.5}	--	6.00E-03	lb/ton	B	0.12	0.53
TSP*	--	See Reference C		C	0.12	0.53
Total PM ₁₀	--	See Reference C		C	0.46	2.03
Total PM _{2.5}	--	See Reference C		C	0.46	2.03

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. A portion of the combustion gases vent through the baghouse that controls process emissions to ensure the baghouse temperatures remain high enough to work properly. However, all emissions resulting due to combustion gases are administratively reflected as being emitted at PT7 (as opposed to a portion at PT8).

References:

- A. Emission factor developed based on stack test data from other GP sites.
- B. AP-42, Table 11.16-2 (Fifth Edition, January 1995) for gypsum processing. No FPM10 emission factor is available. Therefore, FPM10 and FPM2.5 emissions are assumed equal to FPM.
- C. TSP is equivalent to FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}.

Sample Calculations:

Hourly FPM Emissions (lb/hr) = Emission Factor (lb/ton) * Maximum Process Rate (ton/hr)

Hourly FPM Emissions (lb/hr) = 6.00E-03 lb/ton * 20 ton/hr = 0.12 lb/hr

Annual FPM Emissions (tpy) = Emission Factor (lb/ton) * Maximum Process Rate (ton/yr) / 2,000 (lb/ton)

Annual FPM Emissions (tpy) = 6.00E-03 lb/ton * 175,200 ton/yr / 2,000 lb/ton = 0.53 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Kettle Calciner Nos. 1 , 2, and 3
Emission Unit No.: U2

Pollutant	Emission Rates	
	(lb/hr)	(tpy)
CO		12.4
NOx		16.4
Pb		
CPM		
FPM		
FPM10		
FPM2.5		
TSP*		1.92
Total PM10		7.47
Total PM2.5		7.47
SO2		
VOC	0.39	1.70

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Boiler for Office Heat

Emission Unit No.: U6

Natural Gas Combustion Emissions (Operating Scenario 1)

Control Device No.: N/A

Equipment No.: E6

Emission Point No.: PT9

Maximum Natural Gas Firing Rate: 2.50 MMBtu/hr

21,900 MMBtu/yr

Maximum Annual Operation: 8,760 hrs/yr

Pollutant	HAP	Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CO	--	84	0.082	A	0.21	0.90
NOx	--	100	0.098	A	0.25	1.07
Pb	--	5.00E-04	4.90E-07	A	1.23E-06	5.37E-06
CPM	--	5.7	5.59E-03	A	0.01	0.06
FPM	--	1.9	1.86E-03	A	4.66E-03	0.02
FPM ₁₀	--	1.9	1.86E-03	A	4.66E-03	0.02
FPM _{2.5}	--	1.9	1.86E-03	A	4.66E-03	0.02
TSP*	--	1.9	1.86E-03	A	4.66E-03	0.02
Total PM ₁₀	--	7.6	7.45E-03	A	0.02	0.08
Total PM _{2.5}	--	7.6	7.45E-03	A	0.02	0.08
SO ₂	--	0.6	5.88E-04	A	1.47E-03	0.01
VOC	--	5.5	5.39E-03	A	0.01	0.06
Greenhouse Gases						
CO ₂ e	--	--	117.10	B	293	1,282
Carbon dioxide	--	--	116.98	B	292	1,281
Methane	--	--	2.20E-03	B	5.51E-03	2.41E-02
Nitrous oxide	--	--	2.20E-04	B	5.51E-04	2.41E-03
Hazardous Air Pollutants						
Total HAP	--	--	1.85E-03	C	4.63E-03	0.02
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	A	5.88E-08	2.58E-07
Arsenic	Yes	2.00E-04	1.96E-07	A	4.90E-07	2.15E-06
Benzene	Yes	2.10E-03	2.06E-06	A	5.15E-06	2.25E-05
Cadmium	Yes	1.10E-03	1.08E-06	A	2.70E-06	1.18E-05
Chromium	Yes	1.40E-03	1.37E-06	A	3.43E-06	1.50E-05
Cobalt	Yes	8.40E-05	8.24E-08	A	2.06E-07	9.02E-07
Dichlorobenzene	Yes	1.20E-03	1.18E-06	A	2.94E-06	1.29E-05
Fluoranthene	Yes	3.00E-06	2.94E-09	A	7.35E-09	3.22E-08
Fluorene	Yes	2.80E-06	2.75E-09	A	6.86E-09	3.01E-08
Formaldehyde	Yes	7.50E-02	7.35E-05	A	1.84E-04	8.05E-04
Hexane	Yes	1.8	1.76E-03	A	4.41E-03	1.93E-02
Manganese	Yes	3.80E-04	3.73E-07	A	9.31E-07	4.08E-06
Mercury	Yes	2.60E-04	2.55E-07	A	6.37E-07	2.79E-06
Naphthalene	Yes	6.10E-04	5.98E-07	A	1.50E-06	6.55E-06
Nickel	Yes	2.10E-03	2.06E-06	A	5.15E-06	2.25E-05
Phenanthrene	Yes	1.70E-05	1.67E-08	A	4.17E-08	1.83E-07
POM	Yes	6.62E-04	6.49E-07	C	1.62E-06	7.10E-06
Pyrene	Yes	5.00E-06	4.90E-09	A	1.23E-08	5.37E-08
Toluene	Yes	3.40E-03	3.33E-06	A	8.33E-06	3.65E-05

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

A. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the AP-42 tables. All PM is assumed to be less than 1 micron diameter per AP-42; therefore PM₁₀ and PM_{2.5} emission factors are equal to the PM emission factor.

AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf

B. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-1 were applied to calculate the CO₂e emission factor.

C. Sum of speciated HAP and POM compounds.

Sample Calculations:

Hourly CO Emissions (lb/hr) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr)

Hourly CO Emissions (lb/hr) = 0.082 lb/ton * 2.5 MMBtu/hr = 0.21 lb/hr

Annual CO Emissions (tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 (lb/ton)

Annual CO Emissions (tpy) = 0.082 lb/ton * 21,900 MMBtu/yr / 2,000 lb/ton = 0.90 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Landplaster Bin #4 and Landplaster Bulk Loading
Emission Unit No.: U14

Operating Scenario	Control Device ID No.	Equipment No.	Emission Point No.	Emission Unit	Total Material Transferred		Exhaust Characteristics (if necessary for calculations)			Maximum Annual Operation	Emissions Captured ¹	Emission Factor					Emissions					
					(ton/hr)	(ton/yr)	(acfm)	(°F)	(dscfm)			TSP*	PM10	PM2.5	Units	Reference	TSP* Emissions		PM10		PM2.5	
OS1	CD6	E14	PT17	Landplaster Bin #4	75	32,000	1,495	27.4	1,626	8,760	--	0.004	0.011	0.009	gr/dscf	A, B	0.06	0.24	0.15	0.67	0.13	0.55
				Landplaster Bulk Loading	75	32,000	1,000	27.4	1,087													
OS2	N/A	E38	PT157	Transfer to Truck	75	32,000	--	--	--	8,760	90%	5.37E-03	2.54E-03	3.85E-04	lb/ton	C	0.04	0.01	0.02	4.06E-03	2.89E-03	6.15E-04
				Wind Erosion from Open-Top Truck Loading	0.007 acres		--	--	--	8,760	--	1.59	1.59	1.59	lb/day/acre	D	4.92E-04	2.16E-03	4.92E-04	2.16E-03	4.92E-04	2.16E-03

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. This transfer represents the portion of the emissions resulting from filling of an open-top truck. It is assumed that 90% of the emissions are captured and routed to Baghouse CD6.
2. The exhaust flow rate associated with E14 is the maximum exhaust flow from CD6. The fan associated with E38 transfers material to the bin. The total exhaust flow for CD6 is based on the source-specific stack test conducted in July 2022.

References:

- A. Emission factors for filterable PM (TSP), filterable PM10, and CPM based on stack test conducted in July 2022, average plus 2 standard deviations for the three runs.
B. Filterable PM2.5 fraction based on AP-42, Table B.2-3 (Fifth Edition, Reformatted January 1995) for AIRS Code 017, "Fabric filter - med temperature" combined with particle size information in Table B.2-2 for Category 4, material handling and processing of processed ores and minerals.
C. Emission factors based on Equation 1 in AP-42, Section 13.2.4 for Aggregate Handling and Storage Piles (Fifth Edition, 11/06). The inputs used to calculate the emission factors are shown below.

$$E(lb/ton) = k(0.0032) \left(\frac{U}{M} \right)^{1.3}$$

Where:
k = particle size multiplier, dimensionless
0.74 for PM
0.35 for PM₁₀
0.053 for PM_{2.5}
E = particulate emission factor, lb/ton
U = mean wind speed, mph = 1
M = material moisture content, % = 0.25%

The mean wind speed is conservatively based on 1 mph because the activity occurs indoors. The moisture content is based on process knowledge and represents the minimum value the AP-42 equation is valid for.
D. NCASI Technical Bulletin 424 (March 1984), Figure 10 is used to estimate emissions for woodyard storage piles. This methodology was conservatively assumed to be valid for PM, PM10, and PM2.5 emissions from landplaster storage in the truck.

$$E \left(\frac{lb}{day} / acre \right) = 1.7 \times \left(\frac{s}{1.5} \right) \times \left(\frac{d}{235} \right) \times \left(\frac{f}{15} \right)$$

Where:
s = silt content (% by weight) = 1.6 %
d = dry days per year (days with less than 0.01 inches of precipitation) = 120
f = percent of time wind speed exceeds 12 mph at mean pile height = 25.8

The material silt content is based on information in AP-42, Table 1.2.4-1 for stone quarrying and processing. The number of dry days was estimated at 120 based on NOAA Online Weather Data for Philadelphia area from 2000-2021. The estimate of percentage of the year that windspeed was greater than 12 mph based on NOAA windspeed information for Philadelphia, PA (20016-2020).

Sample Calculations:

Hourly FPM Emissions for E14 (lb/hr) = Emission Factor (gr/scf) / 7,000 gr/lb * Exhaust Flow Rate (scfm) * 60 (min/hr)
Hourly FPM Emissions for E14 (lb/hr) = 0.004 gr/dscf / 7,000 gr/lb * 1,626 dscfm * 60 min/hr = 0.06 lb/hr

Annual FPM Emissions for E14 (tpy) = Hourly Emissions (lb/hr) * Maximum Annual Operation (hr/yr) / 2,000 (lb/ton)
Annual FPM Emissions for E14 (tpy) = 0.06 lb/hr * 8,760 hr/yr / 2,000 lb/ton = 0.24 tpy

Hourly FPM Emissions for E38 - Transfer to Feeder (lb/hr) = Emission Factor (lb/ton) * Throughput (ton/hr) * (1 - % Captured by Baghouse Pickup)
Hourly FPM Emissions for E38 - Transfer to Feeder (lb/hr) = 5.37E-03 lb/ton * 75 ton/hr * (1 - 0.9) = 4.03E-02 lb/hr

Annual FPM Emissions for E38 - Transfer to Feeder (tpy) = Emission Factor (lb/ton) * Throughput (ton/yr) / 2,000 lb/ton * (1 - % Captured by Baghouse Pickup)
Annual FPM Emissions for E138 - Tranfer to Feeder (tpy) = 5.37E-03 lb/ton * 32,000 ton/yr / 2,000 lb/ton * 75 ton/hr * (1 - 0.9) = 0.01 tpy

Annual FPM Emissions for E38 - Wind Erosion for Open-Top Truck Loading (tpy) = Emission Factor (lb/day/acre) * Truck Bed Surface Area (acres) * (Annual Operation (hr/yr) / 24 hr/day) / 2,000 (lb/ton)
Annual FPM Emissions for E38 - Wind Erosion for Open-Top Truck Loading (tpy) = 1.59 lb/day/acre * 0.007 acres * (8,760 hr/yr / 24 hr/day) / 2,000 lb/ton = 2.16E-03 tpy

Hourly FPM Emissions for E38 - Wind Erosion for Open-Top Truck Loading (lb/hr) = Annual Emissions (ton/yr) / Annual Operation (hr/yr) * 2,000 (lb/ton)
Hourly FPM Emissions for E38 - Wind Erosion for Open-Top Truck Loading (lb/hr) = 2.16E-03 lb/hr / 8,760 hr/yr * 2,000 lb/ton = 4.92E-04 lb/hr

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Fabric Filter Emission:

Emission Unit No.	Operating Scenario	Control Device ID No.	Equipment No.	Emission Point No.	Emission Unit	Total Material Transferred (Not Used in Emission Rate Calculations)		Exhaust Characteristics			Emission Factors (gr/scf)				Maximum Annual Operation (hr/yr)	TSP* Emissions		PM ₁₀ Emissions		PM _{2.5} Emissions	
						(ton/hr)	(ton/yr)	(acfm)	(°F)	(dscfm)	TSP*	PM ₁₀	PM _{2.5}	Reference		(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
U22	OS1	CD13	E22	Vents Indoors	Stucco Reserve Bin #1	60	525,600	220	27.4	239	0.02	0.02	0.01	A, B	8,760	0.04	0.18	0.04	0.18	0.02	0.09
U26	OS1	CD19	E26	Vents Indoors	Portland Cement Bin	100	6,000	950	27.4	1,033	0.02	0.02	0.01	A, B	8,000	0.18	0.71	0.18	0.71	0.09	0.37
U27	OS1	CD20	E27	Vents Indoors	Landplaster Bin #1	20	175,200	200	27.4	217	0.02	0.02	0.01	A, B	8,760	0.04	0.16	0.04	0.16	0.02	0.09
U28	OS1	CD21	E28	Vents Indoors	Landplaster Bin #2	20	175,200	200	27.4	217	0.02	0.02	0.01	A, B	8,760	0.04	0.16	0.04	0.16	0.02	0.09
U29	OS1	CD22	E29	Vents Indoors	Landplaster Bin #3	20	175,200	200	27.4	217	0.02	0.02	0.01	A, B	8,760	0.04	0.16	0.04	0.16	0.02	0.09
U30	OS1	CD23	E30	Vents Indoors	Molding Plaster Bin	20	175,200	220	27.4	239	0.02	0.02	0.01	A, B	8,760	0.04	0.18	0.04	0.18	0.02	0.09
	OS2		E61		Molding Plaster Bin Elevator																
U35	OS1	CD25	E42	Vents Indoors	Alpha Feed Bin	25	219,000	950	27.4	1,033	0.02	0.02	0.01	A, B	8,760	0.18	0.78	0.18	0.78	0.09	0.41
U38	OS1	CD28	E49	Vents Indoors	Impact Mill #1	25	219,000	1,200	27.4	1,305	0.02	0.02	0.01	A, B	8,760	0.22	0.98	0.22	0.98	0.12	0.51
	OS2		E70	Vents Indoors	Impact Mill #2																
U39	OS1	CD29	E50	Vents Indoors	Impact Mill Screen	25	219,000	300	27.4	326	0.02	0.02	0.01	A, B	8,760	0.06	0.24	0.06	0.24	0.03	0.13
U40	OS1	CD30	E51	Vents Indoors	#2 Stucco Reserve Bin	60	525,600	300	27.4	326	0.02	0.02	0.01	A, B	8,760	0.06	0.24	0.06	0.24	0.03	0.13
U41	OS1	CD31	E52	Vents Indoors	Impact Mill Feed Bin	20	175,200	300	27.4	326	0.02	0.02	0.01	A, B	8,760	0.06	0.24	0.06	0.24	0.03	0.13
	OS2		E60	Vents Indoors	Impact Mill Feed Bin Elevator									A, B							
U47	OS1	CD39	E75	Vents Indoors	Reject Bin	60	525,600	300	27.4	326	0.02	0.02	0.01	A, B	8,760	0.06	0.24	0.06	0.24	0.03	0.13

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

A. Vendor information, consistent with the allowable emission rate of 0.02 gr/scf in N.J.A.C. 7:27-6.2(a) for PM

B. PM_{2.5} fraction based on AP-42, Table B.2-3 (Fifth Edition, Reformatted January 1995) for AIRS Code 017, "Fabric filter - med temperature" combined with particle size information in Table B.2-2 for Category 4, material handling and processing of processed ores and minerals.

Sample Calculations (shown for Emission Unit No. U22)

Hourly FPM Emissions (lb/hr) = Emission Factor (gr/scf) / 7,000 gr/lb * Exhaust Flow Rate (scfm) * 60 (min/hr)

Hourly FPM Emissions for U22 (lb/hr) = 0.02 gr/dscf / 7,000 gr/lb * 239 dscfm * 60 min/hr = 0.04 lb/hr

Annual FPM Emissions (tpy) = Hourly Emissions (lb/hr) * Maximum Annual Operation (hr/yr) / 2,000 (lb/ton)

Annual FPM Emissions (tpy) = 0.04 lb/hr * 8,760 hr/yr / 2,000 lb/ton = 0.18 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Raymond Mill #1 and Raymond Mill #2
Emission Unit No.: U24

Natural Gas Combustion Emissions (Operating Scenario 1)

Control Device No.: CD16, CD18
Equipment No.: E24, E25
Emission Point No.: PT26, PT27

Maximum Natural Gas Firing Rate: 5.0 MMBtu/hr/mill
72,855 MMBtu/yr for both mills combined
Maximum Annual Operation: 14,571 hrs/yr for both mills combined

Baghouse Exhaust Flow Rate: 10,000 acfm/baghouse
Exhaust Temperature: 150 °F
Exhaust Moisture Content: 2.0%
Baghouse Exhaust Flow Rate: 8,515 dscfm/baghouse
Baghouse Maximum Annual Operation: 8,760 hrs/yr/each baghouse

Pollutant	HAP	Natural Gas Combustion			Process			Hourly Emissions for Raymond Mill #1 (lb/hr)	Hourly Emissions for Raymond Mill #2 (lb/hr)	Annual Emissions for Both Raymond Mills Combined
		Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Emission Factor	Emission Factor Units	Reference			
Criteria Pollutants										
CO	--	--	0.148	A				0.74	0.74	5.39
NOx	--	--	0.0605	A				0.30	0.30	2.20
Pb	--	5.00E-04	4.90E-07	B				2.45E-06	2.45E-06	1.79E-05
CPM	--	5.7	5.59E-03	B	0.0015	gr/dscf	E	0.14	0.14	0.20
FPM	--	1.9	1.86E-03	B	0.0024	gr/dscf	F	0.18	0.18	1.60
FPM ₁₀	--	1.9	1.86E-03	B	0.0024	gr/dscf	F	0.18	0.18	1.60
FPM _{2.5}	--	1.9	1.86E-03	B	0.0024	gr/dscf	F	0.18	0.18	1.60
TSP*	--	1.9	0.0019	B	0.0024	gr/dscf	G	0.18	0.18	1.60
Total PM ₁₀	--	7.6	0.0075	B	0.0039	gr/dscf	G	0.32	0.32	2.77
Total PM _{2.5}	--	7.6	0.0075	B	0.0039	gr/dscf	G	0.32	0.32	2.77
SO ₂	--	0.6	5.88E-04	B				0.00	0.00	0.02
VOC	--	--	0.0212	A				0.11	0.11	0.77
Greenhouse Gases										
CO2e	--	--	117.10	C				585	585	4,266
Carbon dioxide	--	--	116.98	C				585	585	4,261
Methane	--	--	2.20E-03	C				1.10E-02	1.10E-02	8.03E-02
Nitrous oxide	--	--	2.20E-04	C				1.10E-03	1.10E-03	8.03E-03
Hazardous Air Pollutants										
Total HAP	--	--	1.85E-03	D				0.01	0.01	0.07
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	B				1.18E-07	1.18E-07	8.57E-07
Arsenic	Yes	2.00E-04	1.96E-07	B				9.80E-07	9.80E-07	7.14E-06
Benzene	Yes	2.10E-03	2.06E-06	B				1.03E-05	1.03E-05	7.50E-05
Cadmium	Yes	1.10E-03	1.08E-06	B				5.39E-06	5.39E-06	3.93E-05
Chromium	Yes	1.40E-03	1.37E-06	B				6.86E-06	6.86E-06	5.00E-05
Cobalt	Yes	8.40E-05	8.24E-08	B				4.12E-07	4.12E-07	3.00E-06
Dichlorobenzene	Yes	1.20E-03	1.18E-06	B				5.88E-06	5.88E-06	4.29E-05
Fluoranthene	Yes	3.00E-06	2.94E-09	B				1.47E-08	1.47E-08	1.07E-07
Fluorene	Yes	2.80E-06	2.75E-09	B				1.37E-08	1.37E-08	1.00E-07
Formaldehyde	Yes	7.50E-02	7.35E-05	B				3.68E-04	3.68E-04	2.68E-03
Hexane	Yes	1.8	1.76E-03	B				8.82E-03	8.82E-03	6.43E-02
Manganese	Yes	3.80E-04	3.73E-07	B				1.86E-06	1.86E-06	1.36E-05
Mercury	Yes	2.60E-04	2.55E-07	B				1.27E-06	1.27E-06	9.29E-06
Naphthalene	Yes	6.10E-04	5.98E-07	B				2.99E-06	2.99E-06	2.18E-05
Nickel	Yes	2.10E-03	2.06E-06	B				1.03E-05	1.03E-05	7.50E-05
Phenanthrene	Yes	1.70E-05	1.67E-08	B				8.33E-08	8.33E-08	6.07E-07
POM	Yes	6.62E-04	6.49E-07	D				3.24E-06	3.24E-06	2.36E-05
Pyrene	Yes	5.00E-06	4.90E-09	B				2.45E-08	2.45E-08	1.79E-07
Toluene	Yes	3.40E-03	3.33E-06	B				1.67E-05	1.67E-05	1.21E-04

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

- A. Vendor estimates.
B. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the AP-42 tables. All PM is assumed to be less than 1 micron diameter per AP-42; therefore PM₁₀ and PM_{2.5} emission factors are equal to the PM₁₀ emission factor.
AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf
C. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-1 were applied to calculate the CO_{2e} emission factor.
D. Sum of speciated HAP and POM compounds.
E. Emission factor developed based on stack test data from other GP sites.
F. Vendor data.
G. TSP is equivalent to FPM, Total PM10 is the sum of CPM and FPM10, and Total PM2.5 is the sum of CPM and FPM2.5.

Sample Calculations:

Hourly FPM Emissions for One Mill (lb/hr) = Combustion Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr) + Process Emission Factor (gr/dscf) / 7,000 (gr/lb) * Exhaust Flow Rate (dscfm) * 60 (min/hr) * Annual Operation (hr/yr) / 2,000 (lb/ton)
Hourly FPM Emissions for One Mill (lb/hr) = 1.86E-03 lb/MMBtu * 5.0 MMBtu/hr + 0.0024 gr/dscf / 7,000 gr/lb * 8,515 dscfm * 60 min/hr = 0.18 lb/hr
Annual FPM Emissions for Both Mills (tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 (lb/ton) + Process Emission Factor (gr/dscf) / 7,000 (gr/lb) * Exhaust Flow Rate (dscfm) * 60 (min/hr) * Annual Operation (hr/yr) / 2,000 (lb/ton)
Annual FPM Emissions for Both Mills (tpy) = 1.86E-03 lb/MMBtu * 72,855 MMBtu/yr / 2,000 lb/ton + 0.0024 gr/dscf / 7,000 gr/lb * 8,515 dscfm/baghouse * 2 baghouses * 60 min/hr * 8,760 hr/yr / 2,000 lb/ton = 1.60 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Stucco Cooling
Emission Unit No.: U31

Baghouse Emissions (Operating Scenario Summary)

Control Device No.: CD24
Equipment No.: E31, E32, E33, E34, E35 E36, E37, E71, E57, E58, E106
Emission Point Nos.: PT33

Baghouse Exhaust Flow Rate: 5,551 acfm
Exhaust Temperature: 98 °F
Baghouse Exhaust Flow Rate: 5,272 dscfm
Maximum Annual Operation: 8,760 hrs/yr

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CPM	--	4.50E-03	gr/dscf	A	0.20	0.89
FPM	--	4.20E-03	gr/dscf	A	0.19	0.83
FPM ₁₀	--	4.20E-03	gr/dscf	A	0.19	0.83
FPM _{2.5}	--	4.20E-03	gr/dscf	B	0.19	0.83
TSP*	--	See Reference C		C	0.19	0.83
Total PM ₁₀	--	See Reference C		C	0.39	1.72
Total PM _{2.5}	--	See Reference C		C	0.39	1.72

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

- A. Emission factors for filterable PM (TSP), filterable PM10, and CPM based on stack tests conducted in June and July 2022, average plus 2 standard deviations of available runs.
B. Filterable PM2.5 emissions assumed equal to filterable PM emissions.
C. TSP is equal to FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}.

Sample Calculations:

Hourly FPM Emissions (lb/hr) = Emission Factor (gr/dscf) / 7,000 (gr/lb) * Exhaust Flow Rate (dscfm) * 60
Hourly FPM Emissions (lb/hr) = 4.20E-03 gr/dscf / 7,000 gr/lb * 5,272 dscfm * 60 min/hr = 0.19 lb/hr

Annual FPM Emissions (tpy) = Emission Factor (gr/dscf) / 7,000 (gr/lb) * Exhaust Flow Rate (dscfm) * 60 (min/hr)
* Annual Operation (hr/yr) / 2,000 (lb/ton)
Annual FPM Emissions (tpy) = 4.20E-03 gr/dscf / 7,000 gr/lb * 5,272 dscfm * 60 min/hr * 8,760 hr/yr / 2,000 lb/ton
= 0.83 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Stucco Cooling
Emission Unit No.: U31

Controlled Emissions for Individual Equipment

Baghouse Exhaust Flow Rate - OS8 Contribution: 1,000 acfm
Exhaust Temperature: 98 °F
Baghouse Exhaust Flow Rate: 950 dscfm
Maximum Annual Operation: 8,760 hrs/yr

Operating Scenario	Control Device ID No.	Equipment No.	Emission Point No.	Emission Unit	Total Material Transferred		Emission Factor					Emissions					
												TSP* Emissions		PM10		PM2.5	
					(ton/hr)	(ton/yr)	TSP	PM10	PM2.5	Units	Reference	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
OS1	CD24	E31	PT33	#1 Elevator Discharge Screw	60	525,600	0.00014	4.60E-05	1.30E-05	lb/ton	A	0.01	0.04	2.76E-03	0.01	7.80E-04	3.42E-03
OS2		E32		#1 Collecting Screw	60	525,600	0.00014	4.60E-05	1.30E-05	lb/ton	A	0.01	0.04	2.76E-03	0.01	7.80E-04	3.42E-03
OS3		E33		#1 Cross Screw	60	525,600	0.00014	4.60E-05	1.30E-05	lb/ton	A	0.01	0.04	2.76E-03	0.01	7.80E-04	3.42E-03
OS4		E34		#2 Elevator Discharge Screw	60	525,600	0.00014	4.60E-05	1.30E-05	lb/ton	A	0.01	0.04	2.76E-03	0.01	7.80E-04	3.42E-03
OS5		E35		#2 Collecting Screw	60	525,600	0.00014	4.60E-05	1.30E-05	lb/ton	A	0.01	0.04	2.76E-03	0.01	7.80E-04	3.42E-03
OS6		E36		#2 Cross Screw	60	525,600	0.00014	4.60E-05	1.30E-05	lb/ton	A	0.01	0.04	2.76E-03	0.01	7.80E-04	3.42E-03
OS7		E37		#430 Conveyor Screw	60	525,600	0.00014	4.60E-05	1.30E-05	lb/ton	A	0.01	0.04	2.76E-03	0.01	7.80E-04	3.42E-03
OS8		E71		Bulk Stucco Loading Spout	50	60,000	4.20E-03	8.70E-03	8.70E-03	gr/dscf	B	0.03	0.15	0.07	0.31	0.07	0.31
OS9		E57		Bulk Stucco Handling Elevator	50	60,000	0.00014	4.60E-05	1.30E-05	lb/ton	A	0.01	4.20E-03	2.30E-03	1.38E-03	6.50E-04	3.90E-04
OS10		E58		Bulk Stucco Handling Sifter	50	60,000	0.0022	0.00074	0.000050	lb/ton	C	0.11	0.07	0.04	0.02	2.50E-03	1.50E-03
OS11		E106		Barrel Separator	60	525,600	0.0036	0.0022	0.0022	lb/ton	D	0.22	0.95	0.13	0.58	0.13	0.58

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

- A. AP-42, Table 11.19.2-2 for a controlled conveyor transfer point.
B. Emission factors for filterable PM (TSP), filterable PM10, and CPM based on stack tests conducted in June and July 2022, average plus 2 standard deviations of available runs. Filterable PM2.5 emissions assumed equal to filterable PM emissions. TSP is equal to FPM, Total PM10 is the sum of CPM and FPM10, and Total PM2.5 is the sum of CPM and FPM2.5.
C. AP-42, Table 11.19.2-2 for a controlled screening.
D. AP-42, Table 11.19.2-2 for a controlled fines screening. No PM2.5 emission factor is available; conservatively, the PM2.5 emission factor is assumed equal to the PM10 emission factor.

Sample Calculations (shown for E31):

Hourly FPM Emissions (lb/hr) = Emission Factor (lb/ton) * Maximum Process Rate (ton/hr)

Hourly FPM Emissions (lb/hr) = 0.00014 lb/ton * 60 ton/hr = 0.01 lb/hr

Annual FPM Emissions (tpy) = Emission Factor (lb/ton) * Maximum Process Rate (ton/yr) / 2,000 (lb/ton)

Annual FPM Emissions (tpy) = 0.00014 lb/ton * 525,600 ton/yr / 2,000 lb/ton = 0.04 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Reclaim (Steele) Feeder
Emission Unit No.: U34

Reclaim (Steele) Feeder Emissions (Operating Scenario 1)

Control Device No.: N/A
Equipment No.: E40
Emission Point Nos.: PT34

Maximum Throughputs: 50 ton/hr
438,000 ton/yr
Control Efficiency: 0%

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
FPM	--	5.38E-03	lb/ton	A	0.27	1.18
FPM ₁₀	--	2.54E-03	lb/ton	A	0.13	0.56
FPM _{2.5}	--	3.85E-04	lb/ton	A	0.02	0.08
TSP*	--	See Reference B		B	0.27	1.18
Total PM ₁₀	--	See Reference B		B	0.13	0.56
Total PM _{2.5}	--	See Reference B		B	0.02	0.08

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

A. Emission factors based on Equation 1 in AP-42, Section 13.2.4 for Aggregate Handling and Storage Piles (Fifth

$$E(\text{lb/ton}) = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

Where:

k = particle size multiplier, dimensionless
0.74 for PM
0.35 for PM₁₀
0.053 for PM_{2.5}

E = particulate emission factor, lb/ton
U = mean wind speed, mph = 9.4
M = material moisture content, % = 2

The mean wind speed is based on the average annual windspeed for Philadelphia, PA in AP-42, Section 7.1 (updated June 2020). The moisture content is based on process knowledge and is expected to be conservative.

B. TSP is sum of CPM and FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}. No CPM emissions data available; therefore filterable PM and total PM fractions are assumed equal.

Sample Calculations:

Hourly PM Emissions (lb/hr) = Emission Factor (lb/ton) * Throughput (ton/hr)

Hourly PM Emissions (lb/hr) = 5.38E-03 lb/ton * 50 ton/hr = 0.27 lb/hr

Annual PM Emissions (tpy) = Emission Factor (lb/ton) * Throughput (ton/yr) / 2,000 (lb/ton)

Annual PM emissions (tpy) = 5.38E-03 lb/ton * 438,000 ton/yr / 2,000 lb/ton = 1.18 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Reclaim (Steele) Feeder
Emission Unit No.: U34

Reclaim Belt Conveyor (Operating Scenario 2)

Control Device No.: N/A
Equipment No.: E104
Emission Point Nos.: PT104

Maximum Throughputs: 50 ton/hr
438,000 ton/yr
Control Efficiency: 90%

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
FPM	--	0.003	lb/ton	A	0.02	0.07
FPM ₁₀	--	0.0011	lb/ton	A	0.01	0.02
FPM _{2.5}	--	0.0011	lb/ton	A	0.01	0.02
TSP*	--	See Reference B		B	0.02	0.07
Total PM ₁₀	--	See Reference B		B	0.01	0.02
Total PM _{2.5}	--	See Reference B		B	0.01	0.02

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. Control efficiency for an enclosure is from TCEQ NSR Guidance for Rock Crushing Plants, Control Factors for Continuous and Batch Drop Points (version dated February 19, 2019). The transfer to the Recycle Belt is outside but shrouded; therefore, this control is appropriate.

References:

A. AP-42, Table 11.19.2-2 for a conveyor transfer point. No PM_{2.5} emission factor is available; conservatively, the PM_{2.5} emission factor is assumed equal to the PM₁₀ emission factor.
B. TSP is sum of CPM and FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}. No CPM emissions data available; therefore filterable PM and total PM fractions are assumed equal.

Sample Calculations:

Hourly PM Emissions (lb/hr) = Emission Factor (lb/ton) * Throughput (ton/hr) * (1 - % Captured by Baghouse Pickup)

Hourly PM Emissions (lb/hr) = 0.003 lb/ton * 50 ton/hr * (1 - 0.9) = 0.02 lb/hr

Annual PM Emissions (tpy) = Emission Factor (lb/ton) * Throughput (ton/yr) / 2,000 (lb/ton) * (1 - % Captured by Baghouse Pickup)

Annual PM Emissions (tpy) = 0.003 lb/ton * 438,000 ton/yr / 2,000 lb/ton * (1 - 0.9) = 0.07 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Underlayment/Rock Bins and Transfers

Emission Unit No.: U36

Program of Interest: 51611

Baghouse Emissions (Operating Scenario Summary)

Control Device No.: CD26

Equipment No.: E43, E44, E45, E46, E47, E102, and E103

Emission Point Nos.: PT36

Baghouse Exhaust Flow Rate: 3,239 acfm

Exhaust Temperature: 27.4 °F

Baghouse Exhaust Flow Rate: 3,522 dscfm

Maximum Annual Operation: 8,760 hrs/yr

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
FPM	--	0.014	gr/dscf	A	0.42	1.85
FPM ₁₀	--	0.014	gr/dscf	A	0.42	1.85
FPM _{2.5}	--	0.007	gr/dscf	B	0.22	0.97
TSP*	--	See Reference C		C	0.42	1.85
Total PM ₁₀	--	See Reference C		C	0.42	1.85
Total PM _{2.5}	--	See Reference C		C	0.22	0.97

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

A. NSPS OOO emission limit for an affected facility constructed/modified/reconstructed after April 22, 2008.

B. AP-42, Table B.2-3 (Fifth Edition, Reformatted January 1995) for AIRS Code 0.17, "Fabric filter - med temperature" combined with particle size information in Table B.2.2 for Category 4, material handling and processing

C. TSP is equal to FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}.

No CPM emissions data available.

Sample Calculations:

Hourly FPM Emissions (lb/hr) = Emission Factor (gr/dscf) / 7,000 (gr/lb) * Exhaust Flow Rate (dscfm) * 60 (min/hr)

Hourly PM Emissions (lb/hr) = 0.014 gr/dscf / 7,000 gr/lb * 3,522 dscfm * 60 min/hr = 0.42 lb/hr

Annual FPM Emissions (tpy) = Emission Factor (gr/dscf) / 7,000 (gr/lb) * Exhaust Flow Rate (dscfm) * 60 (min/hr) *

Annual Operation (hr/yr) / 2,000 (lb/ton)

Annual FPM Emissions (tpy) = 0.01 gr/dscf / 7,000 gr/lb * 3,522 dscfm * 60 min/hr * 8,760 hr/yr / 2,000 lb/ton = 1.85 tp

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Underlayment/Rock Bins and Transfers
Emission Unit No.: U36

Controlled Emissions for Individual Equipment

Operating Scenario	Control Device ID No.	Equipment No.	Emission Point No.	Emission Unit	Total Material Transferred		Emission Factor				
					(ton/hr)	(ton/yr)	PM	PM10	PM2.5	Units	Reference
OS1	CD26	E43	PT36	Bag Packer #1	10	87,600	0.00014	4.60E-05	1.30E-05	lb/ton	A
OS6		E102		Bag Packer #2	10	87,600	0.00014	4.60E-05	1.30E-05	lb/ton	A
OS2		E44		Bulk Plaster Blender and Weigher	30	100,000	0.00014	4.60E-05	1.30E-05	lb/ton	A
OS3		E45		#1 Rock Bin Transfer from 11 Belt	140	1,226,400	0.00014	4.60E-05	1.30E-05	lb/ton	A
OS4		E46		#2 Rock Bin Transfer from 11 Belt	140	1,226,400	0.00014	4.60E-05	1.30E-05	lb/ton	A
OS5		E47		Transfer from 10 Belt to 11 Belt	140	1,226,400	0.00014	4.60E-05	1.30E-05	lb/ton	A
OS7		E103		Bulk Bagger	30	100,000	0.014	0.014	0.007	gr/dscf	B, C

Operating Scenario	Emissions					
	PM		PM10		PM2.5	
	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
OS1	1.40E-03	0.01	4.60E-04	2.01E-03	1.30E-04	5.69E-04
OS6	1.40E-03	0.01	4.60E-04	2.01E-03	1.30E-04	5.69E-04
OS2	4.20E-03	0.01	1.38E-03	2.30E-03	3.90E-04	6.50E-04
OS3	0.02	0.09	0.01	0.03	1.82E-03	0.01
OS4	0.02	0.09	0.01	0.03	1.82E-03	0.01
OS5	0.02	0.09	0.01	0.03	1.82E-03	0.01
OS7	0.36	1.57	0.36	1.57	0.21	0.94

20 175200
30 262800

References:

A. AP-42, Table 11.19.2-2 for a controlled conveyor transfer point.

B. NSPS OOO emission limit for an affected facility constructed/modified/reconstructed after April 22, 2008. Emissions for OS7 are calculated as the difference between the total emissions resulting from the exit grain loading and flow from the baghouse and the contribution from the other sources.

C. PM2.5 emission factor based on AP-42, Table B.2-3 (Fifth Edition, Reformatted January 1995) for AIRS Code 0.17, "Fabric filter - med temperature" combined with particle size information in Table B.2.2 for Category 4, material handling and processing of processed ores and minerals. Emissions for OS7 are calculated as the difference between the total emissions resulting from the exit grain loading and flow from the baghouse and the contribution from the other sources.

Sample Calculations (shown for E43):

Hourly FPM Emissions (lb/hr) = Emission Factor (lb/ton) * Maximum Process Rate (ton/hr)

Hourly FPM Emissions (lb/hr) = 0.00014 lb/ton * 10 ton/hr = 1.40E-03 lb/hr

Annual FPM Emissions (tpy) = Emission Factor (lb/ton) * Maximum Process Rate (ton/yr) / 2,000 (lb/ton)

Annual FPM Emissions (tpy) = 0.00014 lb/ton * 87,600 ton/yr / 2,000 lb/ton = 0.01 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Underlayment/Rock Bins and Transfers

Emission Unit No.: U36

Uncontrolled Emissions

Control Device No.: N/A

Equipment No.: E122, E123

Emission Point Nos.: PT110

Operating Scenario	Control Device ID No.	Equipment No.	Emission Point No.	Transfer	Total Material Transferred		Number of Transfers	Control Efficiency	Emission Factor				
					(ton/hr)	(ton/yr)			PM	PM10	PM2.5	Units	Reference
OS8	N/A	E122	PT110	Transfer to Surge Bin 1	87.5	766,500	1	90%	0.003	0.0011	0.0011	lb/ton	A
OS9	N/A	E123		Transfer to Surge Bin 2	87.5	766,500	1	90%	0.003	0.0011	0.0011	lb/ton	A

Operating Scenario	Emissions					
	PM		PM10		PM2.5	
	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
OS8	0.03	0.11	0.01	0.04	0.01	0.04
OS9	0.03	0.11	0.01	0.04	0.01	0.04

Notes:

1. Control efficiency for a full enclosure is from TCEQ NSR Guidance for Rock Crushing Plants, Control Factors for Continuous and Batch Drop Points (version dated February 19, 2019). The conveyors are covered by sheet metal; therefore, this control is appropriate.

References:

A. AP-42, Table 11.19.2-2 for a conveyor transfer point.

Sample Calculations:

Hourly PM Emissions (lb/hr) = Emission Factor (lb/ton) * Number of Transfer Points * Throughput (ton/hr) * (1 - Control Efficiency (%))

Hourly PM Emissions (lb/hr) = 0.003 lb/ton * 1 * 87.5 ton/hr * (1 - 0.9) = 0.03 lb/hr

Annual PM Emissions (tpy) = Emission Factor (lb/ton) * Number of Transfer Points * Throughput (ton/yr) / 2,000 (lb/ton) * (1 - Control Efficiency (%))

Annual PM Emissions (tpy) = 0.003 lb/ton * 1 * 766,500 ton/yr / 2,000 lb/ton * (1 - 0.9) = 0.11 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Crusher Building and Transfer Tower
Emission Unit No.: U51

Operating Scenario	Control Device ID No.	Equipment No.	Emission Point No.	Transfer	Total Material Transferred		Number of Transfers	Control Efficiency	Emission Factor					Emissions					
					(ton/hr)	(ton/yr)			PM	PM10	PM2.5	Units	Reference	TSP		PM10		PM2.5	
														(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
OS1	N/A	E107	PT153	Transfer from #6 (Crumb) Belt to #7 Belt	175	300,000	1	90%	0.003	0.0011	0.0011	lb/ton	A	0.05	0.05	0.02	0.02	0.02	0.02
OS2	N/A	E108	PT107	Transfer from #7 Belt to #8 Belt	175	300,000	1	90%	0.003	0.0011	0.0011	lb/ton	A	0.05	0.05	0.02	0.02	0.02	0.02
OS3	N/A	E111	PT107	Transfer from #8 Belt to Wobbler Separator	175	300,000	1	90%	0.003	0.0011	0.0011	lb/ton	A	0.05	0.05	0.02	0.02	0.02	0.02
OS4	N/A	E110	PT107	Transfer from Gyratory Crusher or Wobbler Separator or Reclaim Belt to #9 Belt	175	300,000	1	90%	0.003	0.0011	0.0011	lb/ton	A	0.05	0.05	0.02	0.02	0.02	0.02
OS5	N/A	E109	PT108, PT109	Transfer from #9 Belt to #10 Belt	175	300,000	1	90%	0.003	0.0011	0.0011	lb/ton	A	0.05	0.05	0.02	0.02	0.02	0.02
OS6	N/A	E124	PT152	Transfer to Bar Feeder	175	300,000	1	90%	0.003	0.0011	0.0011	lb/ton	A	0.05	0.05	0.02	0.02	0.02	0.02
OS7	N/A	E125	PT153	Transfer from Bar Feeder to #6 (Crumb) Belt	175	300,000	1	90%	0.003	0.0011	0.0011	lb/ton	A	0.05	0.05	0.02	0.02	0.02	0.02

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:
1. Control efficiency for a full enclosure is from TCEQ NSR Guidance for Rock Crushing Plants, Control Factors for Continuous and Batch Drop Points (version dated February 19, 2019). The conveyors are covered by sheet metal and located in a building; therefore, this control is appropriate.

References:
A. AP-42, Table 11.19.2-2 for a conveyor transfer point.

Sample Calculations:
Hourly PM Emissions (lb/hr) = Emission Factor (lb/ton) * Number of Transfer Points * Throughput (ton/hr) * (1 - Control Efficiency (%))
Hourly PM Emissions (lb/hr) = 0.003 lb/ton * 1 * 175 ton/hr * (1 - 0.9) = 0.05 lb/hr
Annual PM Emissions (tpy) = Emission Factor (lb/ton) * Number of Transfer Points * Throughput (ton/yr) / 2,000 (lb/ton) * (1 - Control Efficiency (%))
Annual PM Emissions (tpy) = 0.003 lb/ton * 1 * 300,000 ton/yr / 2,000 lb/ton * (1 - 0.9) = 0.05 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

DeLumper

Emission Unit No.: U53

Feed Hopper Emissions (Operating Scenario 1)

Control Device No.: N/A
Equipment No.: E113
Emission Point Nos.: PT111

Maximum Throughputs: 4.31 ton/hr
37,778 ton/yr

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
FPM	--	0.003	lb/ton	A	0.01	0.06
FPM ₁₀	--	0.0011	lb/ton	A	4.74E-03	0.02
FPM _{2.5}	--	0.0011	lb/ton	A	4.74E-03	0.02
TSP*	--	See Reference B		B	0.01	0.06
Total PM ₁₀	--	See Reference B		B	4.74E-03	0.02
Total PM _{2.5}	--	See Reference B		B	4.74E-03	0.02

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

A. AP-42, Table 11.19.2-2 for a conveyor transfer point.

B. TSP is sum of CPM and FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}. No CPM emissions data available; therefore filterable PM and total PM fractions are assumed equal.

Sample Calculations:

Hourly PM Emissions (lb/hr) = Emission Factor (lb/ton) * Throughput (ton/hr)

Hourly PM Emissions (lb/hr) = 0.003 lb/ton * 4.31 ton/hr = 0.01 lb/hr

Annual PM Emissions (tpy) = Emission Factor (lb/ton) * Throughput (ton/yr) / 2,000 lb/ton

Annual PM Emissions (tpy) = 0.003 lb/ton * 37,778 ton/yr / 2,000 lb/ton = 0.06 tpy

Delumper/Discharge Auger Emissions (Operating Scenario 2)

Control Device No.: N/A
Equipment No.: E114
Emission Point Nos.: PT111

Maximum Throughputs: 4.31 ton/hr
37,778 ton/yr

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
FPM	--	0.0054	lb/ton	A	0.02	0.10
FPM ₁₀	--	0.0024	lb/ton	A	0.01	0.05
FPM _{2.5}	--	0.0024	lb/ton	A	0.01	0.05
TSP*	--	See Reference B		B	0.02	0.10
Total PM ₁₀	--	See Reference B		B	0.01	0.05
Total PM _{2.5}	--	See Reference B		B	0.01	0.05

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

References:

A. AP-42, Table 11.19.2-2 for tertiary crushing (uncontrolled). The FPM_{2.5} emission factor was assumed equal to the FPM₁₀ emission factor.

B. TSP is sum of CPM and FPM, Total PM₁₀ is the sum of CPM and FPM₁₀, and Total PM_{2.5} is the sum of CPM and FPM_{2.5}. No CPM emissions data available; therefore filterable PM and total PM fractions are assumed equal.

Sample Calculations:

Hourly PM Emissions (lb/hr) = Emission Factor (lb/ton) * Throughput (ton/hr)

Hourly PM Emissions (lb/hr) = 5.40E-03 lb/ton * 4.31 ton/hr = 0.02 lb/hr

Annual PM Emissions (tpy) = Emission Factor (lb/ton) * Throughput (ton/yr) / 2,000 lb/ton

Annual PM Emissions (tpy) = 5.40E-03 lb/ton * 37,778 ton/yr / 2,000 lb/ton = 0.10 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Resin Extrusion Process
Emission Unit No.: U54

OS7 Bin Vents Exhaust Flow Rate: 1,200 acfm
Exhaust Temperature: 100 °F
Baghouse Exhaust Flow Rate: 1,136 dscfm
Maximum Annual Operation: 8,760 hrs/yr

Operating Scenario	Control Device ID No.	Equipment No.	Emission Point No.	Emission Unit	Total Material Transferred		PM Control Efficiency ¹	Emission Factor					
					(ton/hr)	(ton/yr)		TSP*	PM10	PM2.5	VOC	Units	Reference
OS1	N/A	E115	PT115	Vacuum Loader	0.66	5,795	90%	8.58E-05	4.06E-05	6.14E-06	--	lb/ton	A
OS2	N/A	E116		Hopper Dryer	0.66	5,795	90%	7.71E-04	3.65E-04	5.52E-05	--	lb/ton	A
OS3	N/A	E117		Pigment Feeder 1	0.30	2,628	90%	7.71E-04	3.65E-04	5.52E-05	--	lb/ton	A
OS4	N/A	E118		Pigment Feeder 2			90%						
OS5	CD40	E119	PT119	Resin Extruder	0.43	3,749	0%	68.4	68.4	68.4	177	lb/MM lbs resin	B
OS6	N/A	E120	PT120	Cooling Tower/Cooling Water Tank	220 gpm		0%	0.005	0.005	0.005	See Note 3	% Drift	C
OS7	CD41/CD42/CD43	E121	PT151	Polypropylene Pellet Silo	50	438,000	0%	0.02	0.02	0.02	--	gr/dscf	D

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. Control efficiency for a full enclosure is from TCEQ NSR Guidance for Rock Crushing Plants, Control Factors for Continuous and Batch Drop Points (version dated February 19, 2019). The conveyors are located inside a building; therefore, this control is appropriate.
2. The Resin Extruder is equipped with an ESP for opacity purposes. No control is claimed.
3. No VOC contained in cooling water chemicals. Therefore, no VOC emissions are shown for the Cooling Tower.

References:

A. Emission factors based on Equation 1 in AP-42, Section 13.2.4 for Aggregate Handling and Storage Piles (Fifth Edition, 11/06). The inputs used to calculate the emission factors are shown below.

Where:

$$E(lb/ton) = k(0.0032) \left(\frac{U}{5} \right)^{1.3} \left(\frac{M}{2} \right)^{1.4}$$

k = particle size multiplier, dimensionless
0.74 for PM₁₀
0.35 for PM₁₀
0.053 for PM_{2.5}
E = particulate emission factor, lb/ton
U = mean wind speed, mph = 1
M = material moisture content, % = 4.8 for OS1, 1 for OS2, and 1 for OS3

The mean wind speed is conservatively based on 1 mph because the activity occurs indoors. The moisture content is based on process knowledge and is expected to be conservative.

B. Journal of the Air & Waste Management Association Magazine December 27, 2011, Ken Adams, John Bankston, Anthony Barlow, Michael W. Holdren, Jeff Meyer & Vince J. Marchesani (1999) Development of Emission Factors for Polypropylene Processing, Journal of the Air & Waste Management Association, 49:1, 49-56, DOI: 10.1080/10473289.1999.10463782 <http://dx.doi.org/10.1080/10473289.1999.10463782>.

C. Cooling tower drift is based on manufacturer information. Emissions are also based on the Total Dissolved Solids laboratory results below.

Total Dissolved Solids: 169 ppm

D. Vendor data/allowable emission rate.

Sample Calculations:

Hourly PM Emissions for E115 (lb/hr) = Emission Factor (lb/ton) * Throughput (ton/hr)
Hourly PM Emissions for E115 (lb/hr) = 8.58E-05 lb/ton * 0.66 ton/hr = 5.67E-05 lb/hr

Hourly PM Emissions for E119 (lb/hr) = Emission Factor (lb/MM lb resin) * Throughput (ton/hr) / 2,000 (lb/ton) / 10⁻⁶ (lb/MM lb)
Hourly PM Emissions for E119 (lb/hr) = 68.4 lb/MM lbs * 0.43 ton/hr * 2,000 lb/ton / 10⁻⁶ lbs/MM lbs = 0.06 lb/hr

Annual PM Emissions for E115 (tpy) = Emission Factor (lb/ton) * Throughput (ton/yr) / 2,000 lb/ton
Annual PM Emissions for E115 (tpy) = 8.58E-05 lb/ton * 5,795 ton/yr / 2,000 lb/ton = 2.49E-04 tpy

Annual PM Emissions for E119 (tpy) = Emission Factor (lb/ton) * Throughput (ton/yr) / 2,000 (lb/ton) / 10⁻⁶ (lb/MM lb) / 2,000 lb/ton
Annual PM Emissions for E119 (tpy) = 68.4 lb/MM lbs * 3,749 ton/yr * 2,000 lb/ton / 10⁻⁶ lb/MM lbs / 2,000 lb/ton = 0.26 tpy

Hourly PM Emissions for E120 (lb/hr) = Recirculation Rate (gpm) * 60 (min/hr) * Density of Water (lb/gal) * TDS Concentration (ppm) * Drift (%)
Hourly PM Emissions for E120 (lb/hr) = 220 gpm * 60 min/hr * 8.34 lb/gal * 169 lb/10⁻⁶ lb * 0.005% = 9.30E-04 lb/hr

Annual Emissions for E120 (tpy) = Hourly Emissions (lb/hr) * Annual Operation (hr/yr) / 2,000 (lb/ton)
Annual Emissions for E120 (tpy) = 9.30E-04 lb/hr * 8,760 hr/yr / 2,000 lb/ton = 4.07E-03 tpy

Hourly PM Emissions for E121 (lb/hr) = Emission Factor (gr/scf) / 7,000 gr/lb * Exhaust Flow Rate (scfm) * 60 (min/hr)
Hourly PM Emissions for E121 (lb/hr) = 0.02 gr/dscf / 7,000 gr/lb * 1,136 dscfm * 60 min/hr = 0.19 lb/hr

Annual PM Emissions for E121 (tpy) = Hourly Emissions (lb/hr) * Maximum Annual Operation (hr/yr) / 2,000 (lb/ton)
Annual PM Emissions for E121 (tpy) = 0.19 lb/hr * 8,760 hr/yr / 2,000 lb/ton = 0.85 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Resin Extrusion Process
Emission Unit No.: U54

Operating Scenario	Emissions							
	TSP*		PM10		PM2.5		VOC	
	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
OS1	5.67E-06	2.49E-05	2.68E-06	1.18E-05	4.06E-07	1.78E-06	--	--
OS2	5.10E-05	2.23E-04	2.41E-05	1.06E-04	3.65E-06	1.60E-05	--	--
OS3	2.31E-05	1.01E-04	1.09E-05	4.79E-05	1.66E-06	7.26E-06	--	--
OS4								
OS5	0.06	0.26	0.06	0.26	0.06	0.26	0.15	0.66
OS6	9.30E-04	4.07E-03	9.30E-04	4.07E-03	9.30E-04	4.07E-03	--	--
OS7	0.19	0.85	0.19	0.85	0.19	0.85	--	--

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

HAP Emission Rate Calculations for the Resin Extrusion Process (OS5)

Throughputs: 0.43 ton/hr
3,749 ton/yr

Pollutant	Emission Factor			Emissions	
	Value	Units	Reference	(lb/hr)	(ton/yr)
Acetaldehyde	0.54	lb/MM lbs	A	4.62E-04	2.02E-03
Acrolein	0.05	lb/MM lbs	A	4.28E-05	1.87E-04
Formaldehyde	1.38	lb/MM lbs	A	1.18E-03	0.01
Propionaldehyde	0.07	lb/MM lbs	A	5.99E-05	2.62E-04

References:

A. Journal of the Air & Waste Management Association Magazine: December 27, 2011, Ken Adams, John Bankston, Anthony Barlow, Michael W. Holdren, Jeff Meyer & Vince J. Marchesani (1999) Development of Emission Factors for Polypropylene Processing, Journal of the Air & Waste Management Association, 49:1, 49-56, DOI: 10.1080/10473289.1999.10463782
<http://dx.doi.org/10.1080/10473289.1999.10463782>.

Sample Calculations:

Hourly Acetaldehyde Emissions for E119 (lb/hr) = Emission Factor (lb/MM lb resin) * Throughput (ton/hr) / 2,000 (lb/ton) / 10⁻⁶ (lb/MM lb)
Hourly Acetaldehyde Emissions for E119 (lb/hr) = 0.54 lb/MM lbs * 0.43 ton/hr * 2,000 lb/ton / 10⁻⁶ lbs/MM lbs = 4.62E-04 lb
Annual Acetaldehyde Emissions for E119 (tpy) = Emission Factor (lb/ton) * Throughput (ton/yr) / 2,000 (lb/ton) / 10⁻⁶ (lb/MM lb) / 2,000 lb/ton
Annual Acetaldehyde Emissions for E119 (tpy) = 0.54 lb/MM lbs * 3,749 ton/yr * 2,000 lb/ton / 10⁻⁶ lb/MM lbs / 2,000 lb/ton = 2.02E-03 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Machine Shop Heater
Emission Unit No.: IS5

Maximum Natural Gas Firing Rate: 0.5 MMBtu/hr
4,380 MMBtu/yr
Maximum Annual Operation: 8,760 hrs/yr

Pollutant	HAP	Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CO	--	84	0.082	A	0.04	0.18
NO _x	--	100	0.098	A	0.05	0.21
Pb	--	5.00E-04	4.90E-07	A	2.45E-07	1.07E-06
CPM	--	5.7	5.59E-03	A	2.79E-03	0.01
FPM	--	1.9	1.86E-03	A	9.31E-04	4.08E-03
FPM ₁₀	--	1.9	1.86E-03	A	9.31E-04	4.08E-03
FPM _{2.5}	--	1.9	1.86E-03	A	9.31E-04	4.08E-03
TSP*	--	1.9	1.86E-03	A	9.31E-04	4.08E-03
Total PM ₁₀	--	7.6	7.45E-03	A	3.73E-03	0.02
Total PM _{2.5}	--	7.6	7.45E-03	A	3.73E-03	0.02
SO ₂	--	0.6	5.88E-04	A	2.94E-04	1.29E-03
VOC	--	5.5	5.39E-03	A	2.70E-03	0.01
Greenhouse Gases						
CO ₂ e	--	--	117.10	B	59	256
Carbon dioxide	--	--	116.98	B	58	256
Methane	--	--	2.20E-03	B	1.10E-03	4.83E-03
Nitrous oxide	--	--	2.20E-04	B	1.10E-04	4.83E-04
Hazardous Air Pollutants						
Total HAP	--	--	1.85E-03	C	9.25E-04	4.05E-03
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	A	1.18E-08	5.15E-08
Arsenic	Yes	2.00E-04	1.96E-07	A	9.80E-08	4.29E-07
Benzene	Yes	2.10E-03	2.06E-06	A	1.03E-06	4.51E-06
Cadmium	Yes	1.10E-03	1.08E-06	A	5.39E-07	2.36E-06
Chromium	Yes	1.40E-03	1.37E-06	A	6.86E-07	3.01E-06
Cobalt	Yes	8.40E-05	8.24E-08	A	4.12E-08	1.80E-07
Dichlorobenzene	Yes	1.20E-03	1.18E-06	A	5.88E-07	2.58E-06
Fluoranthene	Yes	3.00E-06	2.94E-09	A	1.47E-09	6.44E-09
Fluorene	Yes	2.80E-06	2.75E-09	A	1.37E-09	6.01E-09
Formaldehyde	Yes	7.50E-02	7.35E-05	A	3.68E-05	1.61E-04
Hexane	Yes	1.8	1.76E-03	A	8.82E-04	3.86E-03
Manganese	Yes	3.80E-04	3.73E-07	A	1.86E-07	8.16E-07
Mercury	Yes	2.60E-04	2.55E-07	A	1.27E-07	5.58E-07
Naphthalene	Yes	6.10E-04	5.98E-07	A	2.99E-07	1.31E-06
Nickel	Yes	2.10E-03	2.06E-06	A	1.03E-06	4.51E-06
Phenanthrene	Yes	1.70E-05	1.67E-08	A	8.33E-09	3.65E-08
POM	Yes	6.62E-04	6.49E-07	C	3.24E-07	1.42E-06
Pyrene	Yes	5.00E-06	4.90E-09	A	2.45E-09	1.07E-08
Toluene	Yes	3.40E-03	3.33E-06	A	1.67E-06	7.30E-06

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. This emission unit is an insignificant source operation as defined in N.J.A.C. 7:27-22.1, specifically Paragraph 1. Since the heater is less than the maximum heat input threshold of 1 MMBtu/hr in Paragraph 11 of the definition of significant source operation in N.J.A.C. 7:27-22, the emission unit is considered insignificant.

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Machine Shop Heater
Emission Unit No.: IS5

References:

A. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the

AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf

B. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-

C. Sum of speciated HAP and POM compounds.

Sample Calculations:

Hourly FPM Emissions (lb/hr) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr)

Hourly FPM Emissions (lb/hr) = $1.86\text{E-}03$ lb/MMBtu * 0.5 MMBtu/hr = $9.31\text{E-}04$ lb/hr

Annual FPM Emissions(tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 lb/ton

Annual FPM Emissions (tpy) = $1.86\text{E-}03$ lb/MMBtu * 4,380 MMBtu/yr / 2,000 lb/ton = $4.08\text{E-}03$ tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Space Heaters - 17 Units

Emission Unit No.: IS6

Number of Space Heaters: 17
Maximum Natural Gas Firing Rate: 0.1 MMBtu/hr/heater
1.7 MMBtu/hr (total)
14,892 MMBtu/yr (total)
Maximum Annual Operation: 8,760 hrs/yr/heater

Pollutant	HAP	Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CO	--	84	0.082	A	0.14	0.61
NOx	--	100	0.098	A	0.17	0.73
Pb	--	5.00E-04	4.90E-07	A	8.33E-07	3.65E-06
CPM	--	5.7	5.59E-03	A	0.01	0.04
FPM	--	1.9	1.86E-03	A	3.17E-03	0.01
FPM ₁₀	--	1.9	1.86E-03	A	3.17E-03	0.01
FPM _{2.5}	--	1.9	1.86E-03	A	3.17E-03	0.01
TSP*	--	1.9	1.86E-03	A	3.17E-03	0.01
Total PM ₁₀	--	7.6	7.45E-03	A	0.01	0.06
Total PM _{2.5}	--	7.6	7.45E-03	A	0.01	0.06
SO ₂	--	0.6	5.88E-04	A	1.00E-03	4.38E-03
VOC	--	5.5	5.39E-03	A	0.01	0.04
Greenhouse Gases						
CO ₂ e	--	--	117.10	B	199	872
Carbon dioxide	--	--	116.98	B	199	871
Methane	--	--	2.20E-03	B	3.75E-03	1.64E-02
Nitrous oxide	--	--	2.20E-04	B	3.75E-04	1.64E-03
Hazardous Air Pollutants						
Total HAP	--	--	1.85E-03	C	3.15E-03	0.01
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	A	4.00E-08	1.75E-07
Arsenic	Yes	2.00E-04	1.96E-07	A	3.33E-07	1.46E-06
Benzene	Yes	2.10E-03	2.06E-06	A	3.50E-06	1.53E-05
Cadmium	Yes	1.10E-03	1.08E-06	A	1.83E-06	8.03E-06
Chromium	Yes	1.40E-03	1.37E-06	A	2.33E-06	1.02E-05
Cobalt	Yes	8.40E-05	8.24E-08	A	1.40E-07	6.13E-07
Dichlorobenzene	Yes	1.20E-03	1.18E-06	A	2.00E-06	8.76E-06
Fluoranthene	Yes	3.00E-06	2.94E-09	A	5.00E-09	2.19E-08
Fluorene	Yes	2.80E-06	2.75E-09	A	4.67E-09	2.04E-08
Formaldehyde	Yes	7.50E-02	7.35E-05	A	1.25E-04	5.48E-04
Hexane	Yes	1.8	1.76E-03	A	3.00E-03	1.31E-02
Manganese	Yes	3.80E-04	3.73E-07	A	6.33E-07	2.77E-06
Mercury	Yes	2.60E-04	2.55E-07	A	4.33E-07	1.90E-06
Naphthalene	Yes	6.10E-04	5.98E-07	A	1.02E-06	4.45E-06
Nickel	Yes	2.10E-03	2.06E-06	A	3.50E-06	1.53E-05
Phenanthrene	Yes	1.70E-05	1.67E-08	A	2.83E-08	1.24E-07
POM	Yes	6.62E-04	6.49E-07	C	1.10E-06	4.83E-06
Pyrene	Yes	5.00E-06	4.90E-09	A	8.33E-09	3.65E-08
Toluene	Yes	3.40E-03	3.33E-06	A	5.67E-06	2.48E-05

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Notes:

1. This emission unit is an insignificant source operation as defined in N.J.A.C. 7:27-22.1, specifically Paragraph 1. Since each heater is less than the maximum heat input threshold of 1 MMBtu/hr in Paragraph 11 of the definition of significant source operation in N.J.A.C. 7:27-22, each heater is considered insignificant.

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Space Heaters - 17 Units
Emission Unit No.: IS6

References:

A. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the

AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf

B. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-1

C. Sum of speciated HAP and POM compounds.

Sample Calculations:

Hourly FPM Emissions (lb/hr) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr)

Hourly FPM Emissions (lb/hr) = 1.86E-03 lb/MMBtu * 1.7 MMBtu/hr = 3.17E-03 lb/hr

Annual FPM Emissions(tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 lb/ton

Annual FPM Emissions (tpy) = 1.86E-03 lb/MMBtu * 14,892 MMBtu/yr / 2,000 lb/ton = 0.01 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Storage/Use of Non-HAP VOC Containing Chemicals in Containers - Lube Filtration Storage Room
Emission Unit No.: IS11

These containers are closed (i.e., do not vent to atmosphere) other than when in use. In addition, these materials have very low vapor pressures. Therefore, negligible emissions expected.

Notes:

1. This emission unit is an insignificant source operation as defined in N.J.A.C. 7:27-22.1, specifically Paragraph 2.i.(2).

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

2,500 Gallon Distillate Fuel Oil Storage Tank
Emission Unit No.: IS13

Notes and Assumptions

- 1. The throughput of the tank is consistent over the year (i.e., each month has equal usage).
- 2. Uninsulated tank with no temperature monitoring.
- 3. All equations and factors from EPA's AP-42 Chapter 7.1, *Organic Liquid Storage Tanks*, version dated June 2020.
- 4. This emission unit is an insignificant source operation as defined in N.J.A.C. 7:27-22.1, specifically Paragraph 2.i.(2).

Tank Data

Tank Type	Horizontal
Roof Type	N/A
Tank Diameter (D) =	12.0 ft
Tank Shell Height (H _S) =	6.0 ft
Tank Effective Diameter (D _E) =	9.6 ft
Tank Effective Height (H _E) =	9.4 ft
Tank Liquid Height (H _L) =	3.0 ft (1/2 shell height, per Equation 1-16)
Cone Roof Slope (S _R) =	N/A ft/ft
Tank Roof Paint Solar Absorptance (α _R) =	0.25 (for white tank in average condition, Section 7 of AP-42, Table 7.1-6, dated 11/19)
Tank Shell Paint Solar Absorptance (α _S) =	0.25 (for white tank in average condition, Section 7 of AP-42, Table 7.1-6, dated 11/19)
Ideal Gas Constant (R) =	10.731 psia-ft ³ /lb-mol-°R
Tank Volume (V _{LX}) =	2,500 gal
Breather Vent Pressure Setting Range (ΔP _B) =	0.00 psia
Atmospheric Pressure (P _A) =	14.69 psia (value for Philadelphia, PA from Table 7.1-7)
Insulated Tank Shell?	No
Insulated Tank Roof?	No
Elevated Liquid Transfer Temperature?	No
Liquid Transfer Temperature =	-- °F
Liquid Diesel Content =	100% mole %

Meteorological Data

Month	Daily Minimum Ambient Temperature ¹ , T _{AN}		Daily Maximum Ambient Temperature ¹ , T _{AX}		Solar Insolation Factor ¹ , I (Btu/ft ² -day)	Daily Average Ambient Temperature, T _{AA} ² (°R)	Liquid Bulk Temperature, T _B ³ (°R)	Daily Average Liquid Surface Temperature, T _{LA} ⁴ (°R)	Average Vapor Temperature, T _V ⁶ (°R)	Daily Ambient Temperature Range, ΔT _A ⁵ (°R)	Daily Vapor Temperature Range, ΔT _V ⁹ (°R)	Maximum Liquid Surface Temperature, T _{LX} ⁷ (°R)	Minimum Liquid Surface Temperature, T _{LN} ⁸ (°R)
	(°F)	(°R)	(°F)	(°R)									
January	24.1	483.8	37.9	497.6	611	490.7	491.1	491.7	492.2	13.8	12.7	494.9	488.5
February	25.3	485.0	40.9	500.6	911	492.8	493.5	494.3	495.0	15.6	15.5	498.2	490.4
March	33.2	492.9	50.4	510.1	1,190	501.5	502.4	503.5	504.4	17.2	18.0	508.0	499.0
April	43.2	502.9	62.9	522.6	1,537	512.7	513.9	515.3	516.5	19.7	21.5	520.7	510.0
May	53.1	512.8	72.5	532.2	1,778	522.5	523.8	525.5	526.9	19.4	22.5	531.1	519.9
June	63.2	522.9	81.4	541.1	1,917	532.0	533.4	535.2	536.7	18.2	22.3	540.8	529.6
July	67.5	527.2	85.4	545.1	1,891	536.1	537.5	539.3	540.8	17.9	22.0	544.8	533.8
August	66.1	525.8	83.8	543.5	1,698	534.6	535.9	537.5	538.8	17.7	20.9	542.7	532.3
September	58.0	517.7	76.0	535.7	1,357	526.7	527.7	529.0	530.0	18	19.4	533.8	524.1
October	45.5	505.2	64.4	524.1	1,015	514.6	515.4	516.3	517.1	18.9	18.3	520.9	511.8
November	37.1	496.8	53.3	513.0	678	504.9	505.4	506.0	506.5	16.2	14.7	509.7	502.3
December	28.4	488.1	42.2	501.9	549	495.0	495.4	495.9	496.3	13.8	12.4	499.0	492.8

¹AP-42 Chapter 7.1, Organic Liquid Storage Tanks, Table 7.1-7 for Philadelphia, PA. Temperatures in this table are the the hourly average minimum and maximum ambient temperatures.

²T_{AA} is the average ambient temperature for each month and is calculated as follows:

$$T_{AA} = \left(\frac{T_{AX} + T_{AN}}{2} \right)$$

Equation 1-30

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

2,500 Gallon Distillate Fuel Oil Storage Tank
Emission Unit No.: IS13

³For a heated tank or a tank with liquid entering at elevated temperature, the liquid bulk temperature is equal to the transfer temperature. For all other tanks, the liquid bulk temperature is calculated as follows:

$$T_B = T_{AA} + 0.003\alpha_S I \quad \text{Equation 1-31}$$

⁴T_{LA} is the average vapor temperature. For a horizontal tank, Hs/D is assumed to be equal to 0.5 and $\alpha_s = \alpha_t$ resulting in Equation 1-28.

$$T_{LA} = 0.4T_{AA} + 0.6T_B + 0.005\alpha I \quad \text{Equation 1-28}$$

⁵ ΔT_A is the daily ambient temperature range and is calculated as follows:

$$\Delta T_A = T_{AX} - T_{AN} \quad \text{Equation 1-11}$$

⁶T_V is the average vapor temperature. For a horizontal tank, Hs/D is assumed to be equal to 0.5 and $\alpha_s = \alpha_t$ resulting in Equation 1-33.

$$T_V = 0.7T_{AA} + 0.3T_B + 0.009\alpha I \quad \text{Equation 1-33}$$

⁷T_{LX} is the maximum liquid surface temperature and is calculated as follows:

$$T_{LX} = T_{LA} + 0.25\Delta T_V \quad \text{Equation from Figure 7.1-17}$$

⁸T_{LN} is the minimum liquid surface temperature and is calculated as follows:

$$T_{LN} = T_{LA} - 0.25\Delta T_V \quad \text{Equation from Figure 7.1-17}$$

⁹ ΔT_V is the daily vapor temperature range. For a horizontal tank, Hs/D is assumed to be equal to 0.5 and $\alpha_s = \alpha_t$ resulting in Equation 1-7.

$$\Delta T_V = 0.7\Delta T_A + 0.02\alpha I \quad \text{Equation 1-7}$$

Throughput Data

Month	Contents	Throughput (gal)	Throughput, Q (bbl)	Liquid Molecular Weight (lb/lb-mol)	Vapor Molecular Weight (lb/lb-mol)
January	Diesel	2,500	60	188	130
February	Diesel	2,500	60	188	130
March	Diesel	2,500	60	188	130
April	Diesel	2,500	60	188	130
May	Diesel	2,500	60	188	130
June	Diesel	2,500	60	188	130
July	Diesel	2,500	60	188	130
August	Diesel	2,500	60	188	130
September	Diesel	2,500	60	188	130
October	Diesel	2,500	60	188	130
November	Diesel	2,500	60	188	130
December	Diesel	2,500	60	188	130

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

2,500 Gallon Distillate Fuel Oil Storage Tank
Emission Unit No.: IS13

Diesel Vapor Pressure Calculations

Month	Average Liquid Surface Temperature, T _{LA}		Minimum Liquid Surface Temperature, T _{LN}		Maximum Liquid Surface Temperature, T _{LX}		Daily Vapor Pressure Range, ΔP _V (psia)
	Temperature (°F)	Vapor Pressure, P _{VA} (psia)	Temperature (°F)	Vapor Pressure, P _{VN} (psia)	Temperature (°F)	Vapor Pressure, P _{VX} (psia)	
January	32.0	0.0024	28.9	0.0022	35.2	0.0027	0.00
February	34.6	0.0027	30.8	0.0023	38.5	0.0031	0.00
March	43.8	0.0037	39.3	0.0032	48.3	0.0044	0.00
April	55.7	0.0056	50.3	0.0047	61.0	0.0067	0.00
May	65.8	0.0078	60.2	0.0065	71.4	0.0094	0.00
June	75.6	0.0107	70.0	0.0090	81.1	0.0127	0.00
July	79.7	0.0121	74.2	0.0102	85.2	0.0143	0.00
August	77.8	0.0114	72.6	0.0097	83.1	0.0134	0.00
September	69.3	0.0088	64.5	0.0075	74.2	0.0102	0.00
October	56.7	0.0058	52.1	0.0050	61.3	0.0068	0.00
November	46.4	0.0041	42.7	0.0036	50.0	0.0046	0.00
December	36.2	0.0029	33.1	0.0025	39.3	0.0032	0.00

Emission Calculations

Annual Diesel Emissions

Month	Calculation of Standing Storage Losses								Calculation of Working Losses			Total Emissions (lb)	Total Emissions (tons)
	Vapor Space Outage ¹ , H _{VO} (ft)	Vapor Space Volume ² , V _V (ft ³)	Stock Vapor Density ³ , W _V (lb/ft ³)	Vapor Space Expansion Factor ⁴ , K _E	Vented Vapor Saturation factor ⁵ , K _S	Days Per Month (days)	Monthly Standing Storage Losses ⁶ , L _S (lb)	Average Daily Standing Losses (lb/day)	Number of Turnovers ⁷ , N	Working Loss Turnover Factor ⁸ , K _N	Monthly Working Losses ⁹ , L _W (lb)		
January	4.7	339.3	6.02E-05	0.03	1.00	31	1.64E-02	5.29E-04	5.9	1.000	0.02	0.04	1.83E-05
February	4.7	339.3	6.59E-05	0.03	1.00	28	1.96E-02	7.00E-04			0.02	0.04	2.08E-05
March	4.7	339.3	8.98E-05	0.04	1.00	31	3.38E-02	1.09E-03			0.03	0.06	3.19E-05
April	4.7	339.3	1.32E-04	0.04	1.00	30	5.59E-02	1.86E-03			0.04	0.10	5.00E-05
May	4.7	339.3	1.80E-04	0.04	1.00	31	8.13E-02	2.62E-03			0.06	0.14	7.07E-05
June	4.7	339.3	2.41E-04	0.04	1.00	30	1.03E-01	3.42E-03			0.08	0.18	9.15E-05
July	4.7	339.3	2.71E-04	0.04	1.00	31	1.17E-01	3.77E-03			0.09	0.21	1.04E-04
August	4.7	339.3	2.57E-04	0.04	1.00	31	1.06E-01	3.40E-03			0.09	0.19	9.58E-05
September	4.7	339.3	2.00E-04	0.04	1.00	30	7.49E-02	2.50E-03			0.07	0.14	7.09E-05
October	4.7	339.3	1.36E-04	0.04	1.00	31	5.08E-02	1.64E-03			0.05	0.10	4.81E-05
November	4.7	339.3	9.76E-05	0.03	1.00	30	2.90E-02	9.66E-04			0.03	0.06	3.08E-05
December	4.7	339.3	6.96E-05	0.03	1.00	31	1.83E-02	5.91E-04			0.02	0.04	2.08E-05
Total							0.7049				0.60	1.31	6.53E-04

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

2,500 Gallon Distillate Fuel Oil Storage Tank
Emission Unit No.: IS13

¹The vapor space outage, H_{VO}, for a vertical fixed roof tank with a dome roof is calculated as follows:

$$H_{VO} = \frac{1}{2} H_E \quad \text{Per notes below Equation 1-15}$$

where:

H_{VO} = Vapor space outage in ft

H_E = Horizontal tank effective height in ft

²The vapor space volume, V_V, is calculated according to the following equation:

$$V_V = \left(\frac{\pi}{4} D_E^2 \right) H_{VO} \quad \text{Equation 1-3}$$

where:

D_E = Tank effective diameter in ft, per notes below Equation 1-15.

H_{VO} = Vapor space outage in ft

³The stock vapor density, W_V, is calculated according to the following equation:

$$W_V = \frac{M_V P_{VA}}{R T_V} \quad \text{Equation 1-22}$$

where:

W_V = Stock vapor density in lb/ft³

M_V = Vapor molecular weight in lb/lb-mole

P_{VA} = Vapor pressure at the daily average liquid surface temperature in psia

R = Ideal gas constant in psia-ft³/lb-lbmole-°R

T_V = average vapor temperature in °R

⁴The vapor space expansion factor, K_E, is calculated according to the following equation:

$$K_E = \frac{\Delta T_V}{T_{LA}} + \frac{\Delta P_V - \Delta P_B}{P_A - P_{VA}} \quad \text{Equation 1-5}$$

where:

K_E = vapor space expansion factor, dimensionless

ΔT_V = Daily vapor temperature range in °R

T_{LA} = Daily average liquid surface temperature in °R

ΔP_V = Daily vapor pressure range in psi

ΔP_B = Breather vent pressure range in psi

P_A = Atmospheric pressure in psia

P_{VA} = Vapor pressure at daily average liquid surface temperature in psia

⁵The vented vapor saturation factor, K_S, is calculated according to the following equation:

$$K_S = \frac{1}{1 + 0.053 P_{VA} H_{VO}} \quad \text{Equation 1-21}$$

where:

K_S = vented vapor saturation factor, dimensionless

P_{VA} = Vapor pressure at daily average liquid surface temperature in psia

H_{VO} = Vapor space outage in ft

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

2,500 Gallon Distillate Fuel Oil Storage Tank
Emission Unit No.: IS13

⁶Annual standing storage losses are calculated according to the following equation:

$$L_S = 365V_V W_V K_E K_S \quad \text{Equation 1-2}$$

where:

L_S = Annual standing storage losses in lb
365 = Number of days in the year
 V_V = Vapor space volume in ft³
 W_V = Stock vapor density in lb/ft³
 K_E = vapor space expansion factor, dimensionless
 K_S = vented vapor saturation factor, dimensionless

For calculation of monthly emissions, the number of days for each month is substituted for 365 above.

⁷The number of turnovers, N, is calculated according to the following equation:

$$N = \frac{5.614Q}{((\pi/4)D^2)(H_{LX} - H_{LN})} \quad \text{Combination of Equations 1-36 and 1-37}$$

where:

Q = Throughput in bbl
D = Tank diameter in ft. For horizontal tanks, use D_E in place of D.
 H_{LX} = Maximum liquid height in ft. For horizontal tanks, use $(\pi/4)*D$ where D is the diameter of a vertical cross section of the tank.
 H_{LN} = Minimum liquid height in ft. Use 0 for horizontal tanks.

⁸The working loss turnover factor, K_N , is based on the following relationships:

for turnovers >36, $K_N = (180 + N)/6N$
for turnovers <36, $K_N = 1$

⁹Working losses are calculated according to the following equation:

$$L_W = V_Q K_N K_P W_V K_B \quad \text{Equation 1-35}$$

where:

L_W = Working losses in lb
 V_Q = net working loss throughput, ft³/yr
=5.614Q
 K_N = Working loss turnover factor, dimensionless
for turnovers >36, $K_N = (180 + N)/6N$
for turnovers <36, $K_N = 1$
 K_P = Working loss product factor, dimensionless
for crude oils, $K_P = 0.75$
for all other organic liquids, $K_P = 1$
 W_V = vapor density, lb/ft³
 K_B = 1, for open vents and setting range up to +/- 0.03 psig

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Space Heaters - 4 Units

Emission Unit No.: IS6

Number of Space Heaters: 4
Maximum Natural Gas Firing Rate: 0.2 MMBtu/hr/heater
0.8 MMBtu/hr (total)
7,008 MMBtu/yr (total)
Maximum Annual Operation: 8,760 hrs/yr/heater

Pollutant	HAP	Emission Factor (lb/MMscf)	Emission Factor (lb/MMBtu)	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CO	--	84	0.082	A	0.07	0.29
NOx	--	100	0.098	A	0.08	0.34
Pb	--	5.00E-04	4.90E-07	A	3.92E-07	1.72E-06
CPM	--	5.7	5.59E-03	A	4.47E-03	0.02
FPM	--	1.9	1.86E-03	A	1.49E-03	0.01
FPM ₁₀	--	1.9	1.86E-03	A	1.49E-03	0.01
FPM _{2.5}	--	1.9	1.86E-03	A	1.49E-03	0.01
TSP*	--	1.9	1.86E-03	A	1.49E-03	0.01
Total PM ₁₀	--	7.6	7.45E-03	A	0.01	0.03
Total PM _{2.5}	--	7.6	7.45E-03	A	0.01	0.03
SO ₂	--	0.6	5.88E-04	A	4.71E-04	2.06E-03
VOC	--	5.5	5.39E-03	A	4.31E-03	0.02
Greenhouse Gases						
CO _{2e}	--	--	117.10	B	94	410
Carbon dioxide	--	--	116.98	B	94	410
Methane	--	--	2.20E-03	B	1.76E-03	7.72E-03
Nitrous oxide	--	--	2.20E-04	B	1.76E-04	7.72E-04
Hazardous Air Pollutants						
Total HAP	--	--	1.85E-03	C	1.48E-03	0.01
2-Methylnaphthalene	Yes	2.40E-05	2.35E-08	A	1.88E-08	8.24E-08
Arsenic	Yes	2.00E-04	1.96E-07	A	1.57E-07	6.87E-07
Benzene	Yes	2.10E-03	2.06E-06	A	1.65E-06	7.21E-06
Cadmium	Yes	1.10E-03	1.08E-06	A	8.63E-07	3.78E-06
Chromium	Yes	1.40E-03	1.37E-06	A	1.10E-06	4.81E-06
Cobalt	Yes	8.40E-05	8.24E-08	A	6.59E-08	2.89E-07
Dichlorobenzene	Yes	1.20E-03	1.18E-06	A	9.41E-07	4.12E-06
Fluoranthene	Yes	3.00E-06	2.94E-09	A	2.35E-09	1.03E-08
Fluorene	Yes	2.80E-06	2.75E-09	A	2.20E-09	9.62E-09
Formaldehyde	Yes	7.50E-02	7.35E-05	A	5.88E-05	2.58E-04
Hexane	Yes	1.80E+00	1.76E-03	A	1.41E-03	6.18E-03
Manganese	Yes	3.80E-04	3.73E-07	A	2.98E-07	1.31E-06
Mercury	Yes	2.60E-04	2.55E-07	A	2.04E-07	8.93E-07
Naphthalene	Yes	6.10E-04	5.98E-07	A	4.78E-07	2.10E-06
Nickel	Yes	2.10E-03	2.06E-06	A	1.65E-06	7.21E-06
Phenanthrene	Yes	1.70E-05	1.67E-08	A	1.33E-08	5.84E-08
POM	Yes	6.62E-04	6.49E-07	C	5.19E-07	2.27E-06
Pyrene	Yes	5.00E-06	4.90E-09	A	3.92E-09	1.72E-08
Toluene	Yes	3.40E-03	3.33E-06	A	2.67E-06	1.17E-05

*TSP, as defined in N.J.A.C. 7:27-22, excludes CPM.

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Space Heaters - 4 Units
Emission Unit No.: IS6

Notes:

1. This emission unit is an insignificant source operation as defined in N.J.A.C. 7:27-22.1, specifically Paragraph 1. Since each heater is less than the maximum heat input threshold of 1 MMBtu/hr in Paragraph 11 of the definition of significant source operation in N.J.A.C. 7:27-22, each heater is considered insignificant.

References:

A. AP-42, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (Fifth Edition, July 1998) for natural gas combustion. Emission factors were converted from a lb/MMscf basis to a lb/MMBtu basis by dividing by a heating value of 1,020 Btu/scf per footnote "a" of the

AP-42 Average Natural Gas Higher Heating Value: 1,020 Btu/scf

B. 40 CFR Part 98, Tables C-1 and C-2 for natural gas. The global warming potentials in 40 CFR Part 98, Subpart A, Table A-

C. Sum of speciated HAP and POM compounds.

Sample Calculations:

Hourly FPM Emissions (lb/hr) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/hr)

Hourly FPM Emissions (lb/hr) = $1.86\text{E-}03$ lb/MMBtu * 0.8 MMBtu/hr = $1.49\text{E-}03$ lb/hr

Annual FPM Emissions(tpy) = Emission Factor (lb/MMBtu) * Maximum Natural Gas Firing Rate (MMBtu/yr) / 2,000 lb/ton

Annual FPM Emissions (tpy) = $1.86\text{E-}03$ lb/MMBtu * 7,008 MMBtu/yr / 2,000 lb/ton = 0.01 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Bake-Off Oven

Emission Unit No.: IS27

Maximum Throughput: 0.8 lb resin/hr/extruder
390 lb resin/yr/extruder

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
CO	--	0.38	lb/lb resin	A	0.30	0.074
VOC	--	0.26	lb/lb resin	A	0.21	0.051
Hazardous Air Pollutants						
Total HAP	--	0.05	lb/lb resin	B	0.04	0.01
Acetaldehyde	Yes	1.73E-02	lb/lb resin	A	1.36E-02	3.36E-03
Acrolein	Yes	3.00E-03	lb/lb resin	A	2.37E-03	5.85E-04
Formaldehyde	Yes	2.31E-02	lb/lb resin	A	1.83E-02	4.50E-03
Methanol	Yes	6.42E-03	lb/lb resin	A	5.08E-03	1.25E-03
Propionaldehyde	Yes	2.25E-03	lb/lb resin	A	1.78E-03	4.39E-04

Notes:

1. This emission unit is an insignificant source operation as defined in N.J.A.C. 7:27-22.1, specifically Paragraph 3. Since the raw material (resin) has a combined weight of less than 50 lb/hr, per Paragraph 6 of the definition of significant source operation in N.J.A.C. 7:27-22, the emission unit is considered insignificant.

References:

- A. Emission factors developed based on testing at GP's Decature Laboratory in January 2019.
- B. Sum of speciated HAP compounds.

Sample Calculations:

Hourly CO Emissions (lb/hr) = Emission Factor (lb/lb resin) * Short-Term Throughput (lb resin/hr)

Hourly CO Emissions (lb/hr) = 0.38 lb/lb resin * 0.8 lb resin/hr = 0.30 lb/hr

Annual CO Emissions(tpy) = Emission Factor (lb/lb resin) * Annual Throughput (lb resin/yr) / 2,000 lb/ton

Annual CO Emissions (tpy) = 0.38 lb/lb resin * 390 lb resin/yr / 2,000 lb/ton = 0.07 tpy

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Autowinder Splicer
Emission Unit No.: IS28

Mat Width: 10 ft
Number of Hot Splicers: 1
Maximum Number of Splices: 4 /day
Max Amount of Mat that Hot Splicer Processes: 0.17 ft (1 in. on front of Roll A; 1" on back of Roll B)
Mat Thickness: 0.005 ft (1/16 inch tri-layer mat)
Mat Density: 66.2 lb/ft³ (from SDS)

Splicer Raw Material Affected = 10 ft * 0.17 ft * 0.005 ft * 66.2 lb/ft³ = 0.57 lb/splice

Splicer Raw Material Processing Speed = 0.57 lb/splice * 4 splices/day (assumed as per hour for worst-case) = 2.30 lb/hr

Emissions Calculations

Annual Material Spliced = 0.57 lb/splice * 4 splices/day * 365 days/year = 838.66 lb/year

Pollutant	HAP	Emission Factor	Emission Factor Units	Reference	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Criteria Pollutants						
PM	--	68.4	lb/MM lbs resin	A	1.57E-04	2.87E-05
PM10	--	68.4	lb/MM lbs resin	A	1.57E-04	2.87E-05
PM2.5	--	68.4	lb/MM lbs resin	A	1.57E-04	2.87E-05
VOC	--	177	lb/MM lbs resin	A	4.07E-04	7.42E-05

Notes:

1. This emission unit is an insignificant source operation as defined in N.J.A.C. 7:27-22.1, specifically Paragraph 3. Since the splicer has a combined weight of less than 50 lb/hr of all raw materials in Paragraph 6 of the definition of significant source operation in N.J.A.C. 7:27-22, the emission unit is considered insignificant.

References:

A. Journal of the Air & Waste Management Association Magazine December 27, 2011, Ken Adams, John Bankston, Anthony Barlow, Michael W. Holdren, Jeff Meyer & Vince J. Marchesani (1999) Development of Emission Factors for Polypropylene Processing, Journal of the Air & Waste Management Association, 49:1, 49-56, DOI: 10.1080/10473289.1999.10463782 <http://dx.doi.org/10.1080/10473289.1999.10463782>. This emission factor is for the extrusion not splicing process. The splicing process is conducted at a lower temperature (i.e., ~200-350°F versus up to ~500° like the extruder). This methodology should be a conservative estimate of emissions from splicing activities.

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
Program of Interest: 51611

Plant-Wide Particulate/Dust Fugitive Emissions from Truck Traffic
Emission Unit No.: FG1

Segment	Road Segment Description	Segment Type	Segment Length ¹ (mi)
A	Front Gate to/from Shipping Dock	Paved	0.22
B	Front Gate to/from Loading Spout	Paved	0.30
C	Rear Entrance (from Offsite Ship Unloading Area) to/from Gypsum Storage Area	Paved	0.08
D	Travel within Gypsum Storage Area (for Gypsum Unloading)	Unpaved	0.07

¹Segment lengths are one-way and were estimated from Google Earth.

Truck and Segments Traveled Data

Truck Type	Truck Weight ¹ (tons)			Number of Trucks Per Year ²	Typical Route	Segments Traveled (1 = One-Way, 2 = Round Trip)			
	Unloaded	Loaded	Average			A	B	C	D
Stucco	14	38	26	2,500	B		2		
Landplaster	17	40	29	1,391	B		2		
Portland Cement/Alpha	14	40	27	231	B		2		
Soundmat	13	15	14	1,875	A	2			
Underlayment	13	36	25	4,348	A	2			
Reload Board	34	36	35	3,600	A	2			
Gypsum	20	43	31	13,393	C-D			2	2

¹Truck weight based on engineering estimates.

²Potential number trucks estimated from potential production rates.

60,000 (tpy) - Maximum annual stucco process rate (U31, OS8)
32,000 (tpy) - Maximum annual landplaster process rate (U14, truck loading)
6,000 (tpy) - Maximum annual Portland Cement/Alpha process rate (U26)
3,749 (tpy) - Maximum annual Soundmat production (U54)
100,000 (tpy) - Maximum annual underlayment production (U36, OS2)
300,000 (tpy) - Maximum gypsum/rock unloaded (U51)

Road Emission Calculations

Segment	Mean weight, W (tons)	Emission Factors (lb/VMT)				VMT (miles/yr)	Silt Loading, sL or s		Emissions (tpy)		
		PM	PM ₁₀	PM _{2.5}	Reference		g/m2	%	PM	PM ₁₀	PM _{2.5}
A	26.3	0.72	0.14	0.04	A	4,353	2.76	NA	1.56	0.31	0.08
B	26.9	0.73	0.15	0.04	A	2,501	2.76	NA	0.91	0.18	0.04
C	31.3	0.85	0.17	0.04	A	2,065	2.76	NA	0.88	0.18	0.04
D	31.3	8.32	2.45	0.25	B	1,765	NA	10	7.34	2.17	0.22
Total Paved Road Emissions									3.35	0.67	0.16
Total Unpaved Road Emissions									7.34	2.17	0.22
Total Plant Road Emissions									10.69	2.84	0.38

References:

A. Emissions estimation for paved roads based on AP-42, Section 13.2.1, Equation 1 (Fifth Edition, 1/11) for vehicles traveling on a paved surface. The equation to calculate the emission factors. Note that rain correction factor [1 - P/(4N)] only applies to annual, not hourly emissions.

$$E = [k \times (sL)^{0.91} \times (W)^{1.02}] \times [1 - (P/4N)]$$

Where:

E = Size-specific emission factor (lb/VMT)

k = Particle size multiplier for particle size range and units of interest, AP-42, Section 13.2.1, Table 13.2.1-1.

Constant	PM*	PM ₁₀	PM _{2.5}
k	0.011	0.0022	0.00054

*Assumed equivalent to total suspended particulate matter (TSP)

sL = Road surface silt loading (g/m2) = 2.76 (based on May 2021 sampling)

W = Mean vehicle weight (tons)

P = Days per year with 0.01 or more inches of precipitation = 120 (NOAA Online Weather Data for Philadelphia area from 2000-2021)

N = Number of days in the averaging period = 365 days

B. Emissions estimate for unpaved roads based on AP-42, Section 13.2.2 (Fifth Edition, 11/06) for vehicles travelling on an unpaved surface. The equation to calculate the emission factors is shown below. Note that rain correction factor [(365 - P)/365] only applies to annual, not hourly emissions.

$$E = k \times (s/12)^a \times (W/3)^b \times [(365 - P)/365]$$

Where:

E = Size-specific emission factor (lb/VMT)

k, a, and b = Empirical constants for particle size range, AP-42, Table 13.2.2-2.

Constant	PM*	PM ₁₀	PM _{2.5}
k	4.9	1.5	0.15
a	0.7	0.9	0.9
b	0.45	0.45	0.45

s = Surface material silt content (%) = 10% (AP-42, Table 13.2.2-1, mean value for stone quarrying and processing)

W = Mean vehicle weight (tons)

P = Days per year with 0.01 or more inches of precipitation = 120 (NOAA Online Weather Data for Philadelphia area from 2000-2021)

Gypsum Storage Piles
Emission Unit No.: FG2

Activity	Throughput (ton/yr)	Material Moisture Content (%)	Pile Area (acres)	Operation (days/yr)	Emission Factors					Emissions (tpy)		
					PM	PM ₁₀	PM _{2.5}	Units	Reference	PM	PM ₁₀	PM _{2.5}
Transfer to Pile	300,000	0.7%	--	--	2.34E-02	1.11E-02	1.68E-03	lb/ton	A	3.51	1.66	0.25
Wind Erosion of Pile	--	--	3.44	365	1.6	1.6	1.6	lb/acre/day	B	1.00	1.00	1.00
Total										4.51	2.66	1.25

†Moisture content based on AP-42, Table 13.2.4-1, mean value for stone quarrying and processing.

References:

B. Emission factors based on Equation 1 in AP-42, Section 13.2.4 for Aggregate Handling and Storage Piles (Fifth Edition, 11/06). The inputs used to calculate the emission factors are shown below.

$$E(lb/ton) = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

Where:

- k = particle size multiplier, dimensionless
 - 0.74 for PM
 - 0.35 for PM₁₀
 - 0.053 for PM_{2.5}
- E = particulate emission factor, lb/ton
- U = mean wind speed, mph, = 9.4
- M = material moisture content, %

C. NCASI Technical Bulletin 424 (March 1984), Figure 10 is used to estimate emissions from woodyard storage piles. This methodology was conservatively assumed to be valid for PM, PM10, and PM2.5 emissions from landplaster storage in the truck.

$$E\left(\frac{lb}{day}, acre\right) = 1.7 \times \left(\frac{s}{1.5}\right) \times \left(\frac{d}{235}\right) \times \left(\frac{f}{15}\right)$$

Where:

- s = silt content (% by weight) = 1.6 %
- d = dry days per year (days with less than 0.01 inches of precipitation) = 120
- f = percent of time wind speed exceeds 12 mph at mean pile height = 25.8

The material silt content is based on information in AP-42, Table 13.2.4-1 for stone quarrying and processing. The number of dry days was estimated at 120 based on NOAA Online Weather Data for Philadelphia area from 2000-2021. The estimate of percentage of the year that windspeed was greater than 12 mph based on NOAA windspeed information for Philadelphia, PA (20016-2020).

Georgia-Pacific Gypsum LLC - Camden Manufacturing Plant
Significant Modification: Major to Minor Source Permit Application
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Emissions Resulting from Naturally-Occurring Metals in Gypsum

Emission Unit No.	Source Description	Emission Point No.	Material Handled	% Gypsum (or Portland Cement for U26)	Moisture Content	TSP Emissions (tpy)	Antimony Emissions (tpy)	Arsenic Emissions (tpy)	Beryllium Emissions (tpy)	Cadmium Emissions (tpy)	Chromium Emissions (tpy)	Cobalt Emissions (tpy)	Lead Emissions (tpy)	Manganese Emissions (tpy)	Mercury Emissions (tpy)	Nickel Emissions (tpy)	Selenium Emissions (tpy)
Raw Gypsum Content (% wt)							0.000102	0.000171	0.000017		0.000192	0.000035	0.000123	0.0154	0.000002	0.000096	
Alpha Content (% wt)							0.000155	0.00107	0.0000337	0.0000406	0.00212	0.000394	0.000934	0.0276	0.0000219	0.00147	0.000143
Portland Cement Content (% wt)							0.000136	0.00057	0.00006		0.00753	0.000745	0.00209	0.0538	0.000004	0.0023	
Significant Emission Units																	
U2	Kettle Calciner # 1	PT3 (Combustion gases) and PT4 (CD1 Exhaust Point)	Combustion Byproducts	0%	N/A	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PT4 (CD1 Exhaust Point)	Stucco	100%	0%	0.53	5.36E-05	8.99E-05	8.94E-06	0.00	1.01E-04	1.84E-05	6.46E-05	8.09E-03	1.05E-06	5.05E-05	0.00
	Kettle Calciner # 2	PT5 (Combustion gases) and PT6 (CD2 Exhaust Point)	Combustion Byproducts	0%	N/A	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PT6 (CD2 Exhaust Point)	Stucco	100%	0%	0.53	5.36E-05	8.99E-05	8.94E-06	0.00	1.01E-04	1.84E-05	6.46E-05	8.09E-03	1.05E-06	5.05E-05	0.00
	Kettle Calciner # 3	PT7 (Combustion gases) and PT8 (CD3 Exhaust Point)	Combustion Byproducts	0%	N/A	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		PT8 (CD3 Exhaust Point)	Stucco	100%	0%	0.53	5.36E-05	8.99E-05	8.94E-06	0.00	1.01E-04	1.84E-05	6.46E-05	8.09E-03	1.05E-06	5.05E-05	0.00
U6	Boiler for Office Heat	PT9	Combustion Byproducts	0%	N/A	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U14	Landplaster Bin #4	PT17	Landplaster	100%	0%	0.24	2.49E-05	4.17E-05	4.15E-06	0.00	4.69E-05	8.54E-06	3.00E-05	3.76E-03	4.88E-07	2.34E-05	0.00
	Landplaster Bulk Loading		Landplaster	100%	0%	0.01	8.77E-07	1.47E-06	1.46E-07	0.00	1.65E-06	3.01E-07	1.06E-06	1.32E-04	1.72E-08	8.25E-07	0.00
	Transfer to Truck		Landplaster	100%	0%	2.16E-03	2.20E-07	3.69E-07	3.66E-08	0.00	4.14E-07	7.54E-08	2.65E-07	3.32E-05	4.31E-09	2.07E-07	0.00
U22	Stucco Reserve Bin #1	Vents Indoors	Stucco	100%	0%	0.18	1.83E-05	3.07E-05	3.05E-06	0.00	3.45E-05	6.29E-06	2.21E-05	2.77E-03	3.59E-07	1.72E-05	0.00
U24	Raymond Mill #1	PT26	Landplaster	100%	0%	1.53*	1.57E-04	2.62E-04	2.61E-05	0.00	2.95E-04	5.37E-05	1.89E-04	2.36E-02	3.07E-06	1.47E-04	0.00
	Raymond Mill #2	PT27	Landplaster	100%	0%												
U26	Portland Cement Bin	Vents Indoors	Portland Cement	100%	0%	0.71	9.63E-05	4.04E-04	4.25E-05	0.00	5.33E-03	5.28E-04	1.48E-03	3.81E-02	2.83E-06	1.63E-03	0.00
U27	Landplaster Bin #1	Vents Indoors	Landplaster	100%	0%	0.16	1.67E-05	2.79E-05	2.78E-06	0.00	3.14E-05	5.72E-06	2.01E-05	2.51E-03	3.27E-07	1.57E-05	0.00
U28	Landplaster Bin #2	Vents Indoors	Landplaster	100%	0%	0.16	1.67E-05	2.79E-05	2.78E-06	0.00	3.14E-05	5.72E-06	2.01E-05	2.51E-03	3.27E-07	1.57E-05	0.00
U29	Landplaster Bin #3	Vents Indoors	Landplaster	100%	0%	0.16	1.67E-05	2.79E-05	2.78E-06	0.00	3.14E-05	5.72E-06	2.01E-05	2.51E-03	3.27E-07	1.57E-05	0.00
U30	Molding Plaster Bin	Vents Indoors	Stucco	100%	0%	0.18	1.83E-05	3.07E-05	3.05E-06	0.00	3.45E-05	6.29E-06	2.21E-05	2.77E-03	3.59E-07	1.72E-05	0.00
	Molding Plaster Bin Elevator		Stucco	100%	0%												
U31	Stucco Cooling	PT33	Stucco	100%	0%	0.83	8.48E-05	1.42E-04	1.41E-05	0.00	1.60E-04	2.91E-05	1.02E-04	1.28E-02	1.66E-06	7.98E-05	0.00
U34	Reclaim Steele Feeder	PT34	Reject Wallboard	86%	2.0%	1.18	1.01E-04	1.70E-04	1.69E-05	0.00	1.91E-04	3.48E-05	1.22E-04	1.53E-02	1.99E-06	9.53E-05	0.00
	Reclaim Belt Conveyor	PT104	Reject Wallboard	86%	2.0%	0.07	5.65E-06	9.47E-06	9.41E-07	0.00	1.06E-05	1.94E-06	6.81E-06	8.53E-04	1.11E-07	5.32E-06	0.00
U35	Alpha Feed Bin	Vents Indoors	Alpha	100%	0%	0.78	1.20E-04	8.30E-04	2.61E-05	3.15E-05	1.64E-03	3.06E-04	7.25E-04	2.14E-02	1.70E-06	1.14E-03	1.11E-04
U36	Underlayment/Rock Bins and Transfers	PT36	Gypsum/Underlayment	100%	0.7%	1.85	1.88E-04	3.14E-04	3.13E-05	0.00	3.53E-04	6.43E-05	2.26E-04	2.83E-02	3.68E-06	1.76E-04	0.00
	Transfer to Surge Bin 1	PT110	Gypsum	100%	0.7%	0.11	1.16E-05	1.95E-05	1.94E-06	0.00	2.19E-05	4.00E-06	1.40E-05	1.76E-03	2.28E-07	1.10E-05	0.00
	Transfer to Surge Bin 2		Gypsum	100%	0.7%	0.11	1.16E-05	1.95E-05	1.94E-06	0.00	2.19E-05	4.00E-06	1.40E-05	1.76E-03	2.28E-07	1.10E-05	0.00
U38	Impact Mill #1	Vents Indoors	Stucco	100%	0%	0.98	9.99E-05	1.68E-04	1.67E-05	0.00	1.88E-04	3.43E-05	1.21E-04	1.51E-02	1.96E-06	9.41E-05	0.00
U39	Impact Mill #2	Vents Indoors	Stucco	100%	0%	0.24	2.50E-07	4.19E-07	4.16E-08	0.00	4.70E-07	8.57E-08	3.01E-07	3.77E-05	4.90E-09	2.35E-07	0.00
U40	Impact Mill Screen	Vents Indoors	Stucco	100%	0%	0.24	2.50E-07	4.19E-07	4.16E-08	0.00	4.70E-07	8.57E-08	3.01E-07	3.77E-05	4.90E-09	2.35E-07	0.00
U41	#2 Stucco Reserve Bin	Vents Indoors	Stucco	100%	0%	0.24	2.50E-07	4.19E-07	4.16E-08	0.00	4.70E-07	8.57E-08	3.01E-07	3.77E-05	4.90E-09	2.35E-07	0.00
U47	Impact Mill Feed Bin	Vents Indoors	Stucco	100%	0%	0.24	2.50E-07	4.19E-07	4.16E-08	0.00	4.70E-07	8.57E-08	3.01E-07	3.77E-05	4.90E-09	2.35E-07	0.00
	Impact Mill Feed Bin Elevator	Vents Indoors	Stucco	100%	0%												
U47	Reject Bin	Vents Indoors	Stucco	100%	0%	0.24	2.50E-07	4.19E-07	4.16E-08	0.00	4.70E-07	8.57E-08	3.01E-07	3.77E-05	4.90E-09	2.35E-07	0.00
U51	Crusher Building and Transfer Tower	PT153, PT107, PT108, PT109	Gypsum	100%	0.7%	0.32	3.19E-07	5.35E-07	5.32E-08	0.00	6.01E-07	1.09E-07	3.85E-07	4.82E-05	6.26E-09	3.00E-07	0.00
U53	Delumper	PT111	Blending Raws	0%	0%	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U54	Vacuum Loader	PT115	PP Beads	0%	N/A	2.49E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hopper Dryer		PP Beads	0%	N/A	2.23E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pigment Feeder 1		Pigment	0%	N/A	1.01E-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Pigment Feeder 2		Pigment	0%	N/A												
	Resin Extruder	PT119	Resin	0%	N/A	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Cooling Tower/Cooling Water Tank	PT120	Cooling Water	0%	N/A	4.07E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Insignificant Emission Units																	
IS5	Machine Shop Heater	N/A	Combustion Byproducts	0%	N/A	4.08E-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS6	Space Heaters - 17 Units	N/A	Combustion Byproducts	0%	N/A	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS26	Space Heaters - 4 Units	N/A	Combustion Byproducts	0%	N/A	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IS28	Auto-Winder	N/A	Resin Mat	0%	N/A	2.87E-05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Emission Units																	
FG1	Plant-Wide Particulate/Dust Fugitive Emissions from Truck Traffic	--	Gypsum	100%	0.7%	10.69	1.08E-05	1.82E-05	1.80E-06	0.00	2.04E-05	3.72E-06	1.31E-05	1.64E-03	2.12E-07	1.02E-05	0.00
FG2	Gypsum Storage Piles	--	Gypsum	100%	0.7%	4.51	4.57E-06	7.66E-06	7.61E-07	0.00	8.60E-06	1.57E-06	5.51E-06	6.90E-04	8.95E-08	4.30E-06	0.00

*Includes process emissions only (i.e., not natural gas combustion byproduct emissions).

Notes:

1. Raw gypsum, alpha, and portland cement weight percent values are based on site-specific data collected 2019-2021. The maximum value with non-detects treated as half the detection limit was used over the respective time period.

**ATTACHMENT G –
NETTING ANALYSIS**

NJ01 - NETTING ANALYSIS RESULTS - Consistent with N.J.A.C. 7:27-18.7

Facility Information → Facility PI: 51611 Facility Name: Georgia-Pacific Gypsum LLC BOP Activity:

Calculation of NI for this Permit Action - NO DATA ENTRY REQUIRED

This table is automatically populated after Table 1 and Table 2 below are completed.

Air Contaminant	IP Emission Increase from Permitted Sources	INP Emission Increase from Non-Permitted Sources	IF Emission Increase from Fugitive Emissions	IA Emission Increase from the Current Modification	DO Emission Decrease from Emission Offsets	DC Emission Decrease from Creditable Emission Reductions	NI Net Emission Increase at the Facility	Significant Net Emission Increase Thresholds (N.J.A.C. 7:27-18.7 Table 3)	Significant Net Emission Increase? Yes/No
VOC	0.73	0.00	0.00	0.12	0.00	0.00	0.85	25	No
NOx	0.32	0.00	0.00	2.29	0.00	0.00	2.61	25	No
CO	0.20	0.00	0.00	2.30	0.00	0.00	2.50	100	No
SO2	0.00	0.00	0.00	0.02	0.00	0.00	0.02	40	No
TSP	1.30	0.00	0.00	6.58	0.00	0.09	7.79	25	No
PM10	1.22	0.00	0.00	8.43	0.00	0.09	9.56	15	No
PM2.5	1.18	0.00	0.00	5.69	0.00	0.09	6.78	10	No

Table 1 - Calculation of Total IA for this Permit Action (Modification or GOP) - ENTER ALL DATA FOR THIS PERMIT ACTION

Equipment ID	Emission Unit / Batch Process	Equipment Description	Start of Constr. Date	Start of Operation Date	VOC TPY	NOx TPY	CO TPY	SO2 TPY	TSP TPY	PM10 TPY	PM2.5 TPY
Multiple	Multiple	See attached Table 1 Addendum	7/1/2023		0.12	2.29	2.30	0.02	6.58	8.43	5.69
Totals for this Permit Action (IA):					0.12	2.29	2.30	0.02	6.58	8.43	5.69

Contemporaneous Period Start:	1/1/2018	Contemporaneous Period End:	
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[illegible]

[illegible]

Addendum to Form NJ01 - Calculation of Total IA for this Permit Action (Modification or GOP)

Equipment ID	Emission Unit/Batch Process	Equipment Description	Start of Constr. Date	Start of Operation Date	VOC TPY	NOx TPY	CO TPY	SO2 TPY	TSP TPY	PM10 TPY	PM2.5 TPY
E3	U2	Kettle Calciner No. 1	7/1/2023	7/1/2023						0.34	0.34
E4	U2	Kettle Calciner No. 2	7/1/2023	7/1/2023	0.06	1.11	0.93	0.01	0.02	0.43	0.43
E5	U2	Kettle Calciner No. 3	7/1/2023	7/1/2023	0.06	1.11	0.93	0.01	0.02	0.43	0.43
E14	U14	Landplaster Bin #4	7/1/2023	7/1/2023					0.20	0.62	0.50
E38	U14	Landplaster Bulk Loading	7/1/2023	7/1/2023							
E24	U24	Raymond Mill #1	7/1/2023	7/1/2023						0.22	0.22
E25	U24	Raymond Mill #2	7/1/2023	7/1/2023							
E26	U26	Portland Cement Bin	7/1/2023	7/1/2023					0.31	0.31	
E31	U31	#1 Elevator Discharge Screw	7/1/2023	7/1/2023						0.77	0.79
E32	U31	#1 Collecting Screw	7/1/2023	7/1/2023							
E33	U31	#1 Cross Screw	7/1/2023	7/1/2023							
E34	U31	#2 Elevator Discharge Screw	7/1/2023	7/1/2023							
E35	U31	#2 Collecting Screw	7/1/2023	7/1/2023							
E36	U31	#2 Cross Screw	7/1/2023	7/1/2023							
E37	U31	#430 Conveyor Screw	7/1/2023	7/1/2023							
E106	U31	Barrel Separator	7/1/2023	7/1/2023							
E57	U31	Bulk Stucco Handling Elevator	7/1/2023	7/1/2023							
E71	U31	Bulk Stucco Loading Spout	7/1/2023	7/1/2023					0.15	0.31	0.31
E58	U31	Bulk Stucco Handling Sifter	7/1/2023	7/1/2023					0.07	0.02	0.002
E40	U34	Reclaim (Steele) Feeder	7/1/2023	7/1/2023					1.18	0.56	0.08
E42	U35	Alpha Feed Bin	7/1/2023	7/1/2023					0.78	0.78	0.41
E103	U36	Bulk Bagger	7/1/2023	7/1/2023					1.57	1.57	0.94
E122	U36	Transfer to Surge Bin 1	7/1/2023	7/1/2023					0.11	0.04	0.04
E123	U36	Transfer to Surge Bin 2	7/1/2023	7/1/2023					0.11	0.04	0.04
E49	U38	Impact Mill #1	7/1/2023	7/1/2023					0.98	0.98	0.51
E70	U38	Impact Mill #2	7/1/2023	7/1/2023							
E50	U39	Impact Mill Screen	7/1/2023	7/1/2023					0.24	0.24	0.13
E51	U40	#2 Stucco Reserve Bin	7/1/2023	7/1/2023					0.24	0.24	0.13
E52	U41	Impact Mill Feed Bin	7/1/2023	7/1/2023					0.24	0.24	0.13
E60	U41	Impact Mill Feed Bin Elevator	7/1/2023	7/1/2023							
E75	U47	Reject Bin	7/1/2023	7/1/2023					0.24	0.24	0.13
E124	U51	Transfer to Bar Feeder	7/1/2023	7/1/2023					0.05	0.02	0.02
E125	U51	Transfer from Bar Feeder to #6 (Crumb) Belt	7/1/2023	7/1/2023					0.05	0.02	0.02
IS5	IS5	Machine Shop Heater - Natural Gas Fired	7/1/2023	7/1/2023				1.00E-03			0.02
IS6	IS6	Space Heaters - 17 Units	7/1/2023	7/1/2023		0.05	0.27	4.00E-03			0.06
IS26	IS26	Space Heaters - 4 Units	7/1/2023	7/1/2023		0.02	0.16				0.01
Totals for this Permit Action (IA):					0.12	2.29	2.30	0.02	6.58	8.43	5.69

**ATTACHMENT H –
NJDEP RADIUS**

**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: BOP **Number:** 190005

Description of Modifications: Georgia-Pacific Gypsum LLC (GP) owns and operates a gypsum plaster manufacturing plant in the City of Camden, Camden County, New Jersey (referred to as the Camden Plant). The Camden Plant is currently a major stationary source under New Jersey Administrative Code (N.J.A.C.) Title 7, Chapter 27, Subchapter 22 and operates under Title V Operating Permit (TVOP) No. BOP190005 issued on November 30, 2021.

This document represents a Significant Modification Permit Application, through which GP is seeking to re-permit the Camden Plant as a non-major source, in accordance with NJDEP policy guidance: "Procedure for a Facility with an Existing Operating Permit to Become a Non-Major Facility" and in accordance with N.J.A.C. 7:27-22.

Please note that Georgia-Pacific is aware of the current Administrative Order (AO 2021-25) for Environmental Justice (EJ) that exists until the EJ regulations are duly promulgated. We believe that this application is not subject to the AO (and would not be subject to the EJ regulations if promulgated as currently proposed) because it is not a renewal application and is not seeking authorization for a facility expansion (as it does not reflect a "modification or expansion of existing operations or footprint of development" as defined under the proposed EJ regulations). Nevertheless, we plan to reach out to one or more Camden-based community representatives to brief them on the application and answer questions.

The Camden Plant is located at 1101 South Front Street in the City of Camden, Camden County, New Jersey. The facility is categorized under the Standard Industrial Classification (SIC) code 3275 and North American Industry Classification System (NAICS) code 327420 for gypsum product manufacturing. The Camden Plant manufactures various types of gypsum products, including screened gypsum rock, ground gypsum, and calcined gypsum. The facility is currently classified as a "major facility" as defined in N.J.A.C. 7:27-22.1 based solely on the site's potential to emit (PTE) of nitrogen oxides (NOX). Details of the manufacturing processes at the Camden Plant are included in the process description in Attachment A, and process flow diagrams are included as Attachment B.

GP is proposing to remove equipment from TVOP No. BOP190005 and to accept federally enforceable emissions limitations that will make the facility a Non-Major source. In addition, other administrative corrections and updates are proposed as part of this application as detailed in Attachments D and E. As per NJDEP guidance, the procedure to make a facility Non-Major is twofold, where:

- GP is including emissions reductions such that Facility-wide emissions will be below major threshold limits including all significant and insignificant sources.
- NJDEP will review this application and make the requested changes to the Operating Permit pursuant to the rule requirements of N.J.A.C. 7:27-22.

GP will continue to operate under existing TVOP No. BOP190005, until this significant modification application is approved by NJDEP. Then, GP will proceed with terminating the Title V permit and, in parallel, will obtain the suitable Preconstruction Permits (PCPs) and/or General Permits, pursuant to N.J.A.C. 7:27-8 under a new minor source facility ID number.

GP submitted an application to renew its TVOP in May 2019. Through ongoing conversations between NJDEP and GP, NJDEP was made aware of GP's intent to change

**New Jersey Department of Environmental Protection
Reason for Application**

the status of the facility to Non-Major. As a result, NJDEP paused its review of the TVOP renewal application and requested that this application address all requested changes to the permit (i.e., those included in any pending applications as well as any new requests).

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Facility Name (AIMS): Georgia Pacific Gypsum LLC

Facility ID (AIMS): 51611

Street GEORGIA PACIFIC GYPSUM LLC
Address: 1101 SOUTH FRONT ST
CAMDEN, NJ 08103

Mailing GEORGIA PACIFIC GYPSUM LLC
Address: 1101 SOUTH FRONT ST
CAMDEN, NJ 08103

County: Camden
Location Lat/Long: 39,55,52 / 75,07,49
Description:

State Plane Coordinates:	
X-Coordinate:	1,869,725
Y-Coordinate:	400,039
Units:	Feet
Datum:	Unknown
Source Org.:	Other/Unknown
Source Type:	Hard Copy Map

Industry:	
Primary SIC:	
Secondary SIC:	
NAICS:	327420

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Air Permit Information Contact**Organization:** Georgia-Pacific Gypsum LLC**Org. Type:** LLC**Name:** Benjamin Chantz**NJ EIN:** 00930899009**Title:** Facility Environmental Manager**Phone:** (856) 536-0725 x**Mailing Address:** 1101 South Front Street
Camden, NJ 08103**Fax:** () - x**Other:** () - x**Type:****Email:** benjamin.chantz@gapac.com

Contact Type: Emission Statements**Organization:** Georgia-Pacific Gypsum LLC**Org. Type:** LLC**Name:** Benjamin Chantz**NJ EIN:** 00930899009**Title:** Facility Environmental Manager**Phone:** (856) 536-0725 x**Mailing Address:** 1101 South Front Street
Camden, NJ 08103**Fax:** () - x**Other:** () - x**Type:****Email:** benjamin.chantz@gapac.com

Contact Type: Fees/Billing Contact**Organization:** Georgia-Pacific Gypsum LLC**Org. Type:** LLC**Name:** Benjamin Chantz**NJ EIN:** 00930899009**Title:** Facility Environmental Manager**Phone:** (856) 536-0725 x**Mailing Address:** 1101 South Front Street
Camden, NJ 08103**Fax:** () - x**Other:** () - x**Type:****Email:** benjamin.chantz@gapac.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: General Contact

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Benjamin Chantz

NJ EIN: 00930899009

Title: Facility Environmental Manager

Phone: (856) 536-0725 x

Mailing Address: 1101 South Front Street
Camden, NJ 08103

Fax: () - x

Other: () - x

Type:

Email: benjamin.chantz@gapac.com

Contact Type: Responsible Official

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Kevin Coggins

NJ EIN: 00930899009

Title: Plant Manager

Phone: (785) 341-1557 x

Mailing Address: 1101 South Front Street
Camden, NJ 08103

Fax: () - x

Other: () - x

Type:

Email: kocoggin@gapac.com

**New Jersey Department of Environmental Protection
Facility Profile (Permitting)**

- | | |
|---|-----|
| 1. Is this facility classified as a small business by the USEPA? | No |
| 2. Is this facility subject to N.J.A.C. 7:27-22? | Yes |
| 3. Are you voluntarily subjecting this facility to the requirements of Subchapter 22? | No |
| 4. Has a copy of this application been sent to the USEPA? | No |
| 5. If not, has the EPA waived the requirement? | No |
| 6. Are you claiming any portion of this application to be confidential? | No |
| 7. Is the facility an existing major facility? | Yes |
| 8. Have you submitted a netting analysis? | Yes |
| 9. Are emissions of any pollutant above the SOTA threshold? | No |
| 10. Have you submitted a SOTA analysis? | No |
| 11. If you answered "Yes" to Question 9 and "No" to Question 10, explain why a SOTA analysis was not required | |
| | |
| 12. Have you provided, or are you planning to provide air contaminant modeling? | No |

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS27	Bake-Off Oven	Manufacturing and Materials Handling Equipment		0.051		0.074					0.01000000	
IS28	Autowinder Splicer	Manufacturing and Materials Handling Equipment		0.000				0.000	0.000			
Total												

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E122	Transfer SB1	Transfer to Surge Bin 1	Manufacturing and Materials Handling Equipment		5/1/1984			
E123	Transfer SB2	Transfer to Surge Bin 2	Manufacturing and Materials Handling Equipment		5/1/1984			
E124	Transfer BF	Transfer to Bar Feeder	Manufacturing and Materials Handling Equipment		1/15/1962	Yes		
E125	Trnsfr 6 Blt	Transfer to 6 Belt	Manufacturing and Materials Handling Equipment		1/15/1962	Yes		

**New Jersey Department of Environmental Protection
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT110	CrusherBldg2	Crusher Building Door 2	Door	55	18	413	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT152	TransfrTwr3	Transfer Tower Door 3	Door	55	16	400	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT153	TransfrTwr4	Transfer Tower Door 4	Door	55	16	400	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 36 B/P System Blender/Packer System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS8		Transfer to Surge Bin 1	Normal - Steady State	E122		PT110		0.0	8,760.0					
OS9		Transfer to Surge Bin 2	Normal - Steady State	E123		PT110		0.0	8,760.0					

U 51 Crshr/Trnsfr Crusher Building and Transfer Tower

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS6	TrnsfrBarFdr	Transfer to Bar Feeder	Normal - Steady State	E124		PT152		0.0	8,760.0					
OS7	#6 Belt	Transfer from Bar Feeder to #6 (Crumb) Belt	Normal - Steady State	E125		PT153		0.0	8,760.0					

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: U36 B/P System
Operating Scenario: OS8
Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				D	lb/hr	No
HAPs (Total)				D	lb/hr	No
NOx (Total)				D	lb/hr	No
Pb				D	lb/hr	No
PM-10 (Total)				D	lb/hr	No
SO2				D	lb/hr	No
TSP				D	lb/hr	No
VOC (Total)				D	lb/hr	No

Subject Item: U36 B/P System
Operating Scenario: OS9
Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				D	lb/hr	No
HAPs (Total)				D	lb/hr	No
NOx (Total)				D	lb/hr	No
Pb				D	lb/hr	No
PM-10 (Total)				D	lb/hr	No
SO2				D	lb/hr	No
TSP				D	lb/hr	No
VOC (Total)				D	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: U51 Crshr/Trnsfr

Operating Scenario: OS6

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				D	lb/hr	No
HAPs (Total)				D	lb/hr	No
NOx (Total)				D	lb/hr	No
Pb				D	lb/hr	No
PM-10 (Total)				D	lb/hr	No
SO2				D	lb/hr	No
TSP				0.05000000	lb/hr	No
VOC (Total)				D	lb/hr	No

Subject Item: U51 Crshr/Trnsfr

Operating Scenario: OS7

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				D	lb/hr	No
HAPs (Total)				D	lb/hr	No
NOx (Total)				D	lb/hr	No
Pb				D	lb/hr	No
PM-10 (Total)				D	lb/hr	No
SO2				D	lb/hr	No
TSP				0.05000000	lb/hr	No
VOC (Total)				D	lb/hr	No

**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: BOP **Number:** 190005

Description of Modifications: Georgia-Pacific Gypsum LLC (GP) owns and operates a gypsum plaster manufacturing plant in the City of Camden, Camden County, New Jersey (referred to as the Camden Plant). The Camden Plant is currently a major stationary source under New Jersey Administrative Code (N.J.A.C.) Title 7, Chapter 27, Subchapter 22 and operates under Title V Operating Permit (TVOP) No. BOP190005 issued on November 30, 2021.

This document represents a Significant Modification Permit Application, through which GP is seeking to re-permit the Camden Plant as a non-major source, in accordance with NJDEP policy guidance: "Procedure for a Facility with an Existing Operating Permit to Become a Non-Major Facility" and in accordance with N.J.A.C. 7:27-22.

Please note that Georgia-Pacific is aware of the current Administrative Order (AO 2021-25) for Environmental Justice (EJ) that exists until the EJ regulations are duly promulgated. We believe that this application is not subject to the AO (and would not be subject to the EJ regulations if promulgated as currently proposed) because it is not a renewal application and is not seeking authorization for a facility expansion (as it does not reflect a "modification or expansion of existing operations or footprint of development" as defined under the proposed EJ regulations). Nevertheless, we plan to reach out to one or more Camden-based community representatives to brief them on the application and answer questions.

The Camden Plant is located at 1101 South Front Street in the City of Camden, Camden County, New Jersey. The facility is categorized under the Standard Industrial Classification (SIC) code 3275 and North American Industry Classification System (NAICS) code 327420 for gypsum product manufacturing. The Camden Plant manufactures various types of gypsum products, including screened gypsum rock, ground gypsum, and calcined gypsum. The facility is currently classified as a "major facility" as defined in N.J.A.C. 7:27-22.1 based solely on the site's potential to emit (PTE) of nitrogen oxides (NOX). Details of the manufacturing processes at the Camden Plant are included in the process description in Attachment A, and process flow diagrams are included as Attachment B.

GP is proposing to remove equipment from TVOP No. BOP190005 and to accept federally enforceable emissions limitations that will make the facility a Non-Major source. In addition, other administrative corrections and updates are proposed as part of this application as detailed in Attachments D and E. As per NJDEP guidance, the procedure to make a facility Non-Major is twofold, where:

- GP is including emissions reductions such that Facility-wide emissions will be below major threshold limits including all significant and insignificant sources.
- NJDEP will review this application and make the requested changes to the Operating Permit pursuant to the rule requirements of N.J.A.C. 7:27-22.

GP will continue to operate under existing TVOP No. BOP190005, until this significant modification application is approved by NJDEP. Then, GP will proceed with terminating the Title V permit and, in parallel, will obtain the suitable Preconstruction Permits (PCPs) and/or General Permits, pursuant to N.J.A.C. 7:27-8 under a new minor source facility ID number.

New Jersey Department of Environmental Protection
Reason for Application

GP submitted an application to renew its TVOP in May 2019. Through ongoing conversations between NJDEP and GP, NJDEP was made aware of GP's intent to change the status of the facility to Non-Major. As a result, NJDEP paused its review of the TVOP renewal application and requested that this application address all requested changes to the permit (i.e., those included in any pending applications as well as any new requests).

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Facility Name (AIMS): Georgia Pacific Gypsum LLC

Facility ID (AIMS): 51611

Street GEORGIA PACIFIC GYPSUM LLC
Address: 1101 SOUTH FRONT ST
CAMDEN, NJ 08103

Mailing GEORGIA PACIFIC GYPSUM LLC
Address: 1101 SOUTH FRONT ST
CAMDEN, NJ 08103

County: Camden
Location Lat/Long: 39,55,52 / 75,07,49
Description:

State Plane Coordinates:	
X-Coordinate:	1,869,725
Y-Coordinate:	400,039
Units:	Feet
Datum:	Unknown
Source Org.:	Other/Unknown
Source Type:	Hard Copy Map

Industry:	
Primary SIC:	
Secondary SIC:	
NAICS:	327420

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Air Permit Information Contact**Organization:** Georgia-Pacific Gypsum LLC**Org. Type:** LLC**Name:** Benjamin Chantz**NJ EIN:** 00930899009**Title:** Facility Environmental Manager**Phone:** (856) 536-0725 x**Mailing Address:** 1101 South Front Street**Fax:** () - x

Camden, NJ 08103

Other: () - x**Type:****Email:** benjamin.chantz@gapac.com

Contact Type: Emission Statements**Organization:** Georgia-Pacific Gypsum LLC**Org. Type:** LLC**Name:** Benjamin Chantz**NJ EIN:** 00930899009**Title:** Facility Environmental Manager**Phone:** (856) 536-0725 x**Mailing Address:** 1101 South Front Street**Fax:** () - x

Camden, NJ 08103

Other: () - x**Type:****Email:** benjamin.chantz@gapac.com

Contact Type: Fees/Billing Contact**Organization:** Georgia-Pacific Gypsum LLC**Org. Type:** LLC**Name:** Benjamin Chantz**NJ EIN:** 00930899009**Title:** Facility Environmental Manager**Phone:** (856) 536-0725 x**Mailing Address:** 1101 South Front Street**Fax:** () - x

Camden, NJ 08103

Other: () - x**Type:****Email:** benjamin.chantz@gapac.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: General Contact

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Benjamin Chantz

NJ EIN: 00930899009

Title: Facility Environmental Manager

Phone: (856) 536-0725 x

Mailing Address: 1101 South Front Street

Fax: () - x

Camden, NJ 08103

Other: () - x

Type:

Email: benjamin.chantz@gapac.com

Contact Type: Responsible Official

Organization: Georgia-Pacific Gypsum LLC

Org. Type: LLC

Name: Kevin Coggins

NJ EIN: 00930899009

Title: Plant Manager

Phone: (785) 341-1557 x

Mailing Address: 1101 South Front Street

Fax: () - x

Camden, NJ 08103

Other: () - x

Type:

Email: kocoggin@gapac.com

**New Jersey Department of Environmental Protection
Facility Profile (Permitting)**

- | | |
|---|-----|
| 1. Is this facility classified as a small business by the USEPA? | No |
| 2. Is this facility subject to N.J.A.C. 7:27-22? | Yes |
| 3. Are you voluntarily subjecting this facility to the requirements of Subchapter 22? | No |
| 4. Has a copy of this application been sent to the USEPA? | No |
| 5. If not, has the EPA waived the requirement? | No |
| 6. Are you claiming any portion of this application to be confidential? | No |
| 7. Is the facility an existing major facility? | Yes |
| 8. Have you submitted a netting analysis? | Yes |
| 9. Are emissions of any pollutant above the SOTA threshold? | No |
| 10. Have you submitted a SOTA analysis? | No |
| 11. If you answered "Yes" to Question 9 and "No" to Question 10, explain why a SOTA analysis was not required | |
| | |
| 12. Have you provided, or are you planning to provide air contaminant modeling? | No |

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS27	Bake-Off Oven	Manufacturing and Materials Handling Equipment		0.051		0.074					0.01000000	
IS28	Autowinder Splicer	Manufacturing and Materials Handling Equipment		0.000				0.000	0.000			
Total												

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E122	Transfer SB1	Transfer to Surge Bin 1	Manufacturing and Materials Handling Equipment		5/1/1984			
E123	Transfer SB2	Transfer to Surge Bin 2	Manufacturing and Materials Handling Equipment		5/1/1984			
E124	Transfer BF	Transfer to Bar Feeder	Manufacturing and Materials Handling Equipment		1/15/1962	Yes		
E125	Trnsfr 6 Blt	Transfer to 6 Belt	Manufacturing and Materials Handling Equipment		1/15/1962	Yes		

**New Jersey Department of Environmental Protection
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT110	CrusherBldg2	Crusher Building Door 2	Door	55	18	413	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT152	TransfrTwr3	Transfer Tower Door 3	Door	55	16	400	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	
PT153	TransfrTwr4	Transfer Tower Door 4	Door	55	16	400	70.0	20.0	100.0	50.0	40.0	100.0	Horizontal	

**New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory**

U 36 B/P System Blender/Packer System

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS8		Transfer to Surge Bin 1	Normal - Steady State	E122		PT110		0.0	8,760.0					
OS9		Transfer to Surge Bin 2	Normal - Steady State	E123		PT110		0.0	8,760.0					

U 51 Crshr/Trnsfr Crusher Building and Transfer Tower

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS6	TrnsfrBarFdr	Transfer to Bar Feeder	Normal - Steady State	E124		PT152		0.0	8,760.0					
OS7	#6 Belt	Transfer from Bar Feeder to #6 (Crumb) Belt	Normal - Steady State	E125		PT153		0.0	8,760.0					

**New Jersey Department of Environmental Protection
Potential to Emit**

Subject Item: U36 B/P System

Operating Scenario: OS8

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				D	lb/hr	No
HAPs (Total)				D	lb/hr	No
NOx (Total)				D	lb/hr	No
Pb				D	lb/hr	No
PM-10 (Total)				D	lb/hr	No
SO2				D	lb/hr	No
TSP				D	lb/hr	No
VOC (Total)				D	lb/hr	No

Subject Item: U36 B/P System

Operating Scenario: OS9

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				D	lb/hr	No
HAPs (Total)				D	lb/hr	No
NOx (Total)				D	lb/hr	No
Pb				D	lb/hr	No
PM-10 (Total)				D	lb/hr	No
SO2				D	lb/hr	No
TSP				D	lb/hr	No
VOC (Total)				D	lb/hr	No

**New Jersey Department of Environmental Protection
Potential to Emit**

Subject Item: U51 Crshr/Trnsfr

Operating Scenario: OS6

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				D	lb/hr	No
HAPs (Total)				D	lb/hr	No
NOx (Total)				D	lb/hr	No
Pb				D	lb/hr	No
PM-10 (Total)				D	lb/hr	No
SO2				D	lb/hr	No
TSP				0.05000000	lb/hr	No
VOC (Total)				D	lb/hr	No

Subject Item: U51 Crshr/Trnsfr

Operating Scenario: OS7

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO				D	lb/hr	No
HAPs (Total)				D	lb/hr	No
NOx (Total)				D	lb/hr	No
Pb				D	lb/hr	No
PM-10 (Total)				D	lb/hr	No
SO2				D	lb/hr	No
TSP				0.05000000	lb/hr	No
VOC (Total)				D	lb/hr	No