

**Division of Air Resources
Permit Review Report**

Permit ID: 3-5522-00087/00019

Renewal Number: 4

03/16/2026

Facility Identification Data

Name: CERTAINTEED GYPSUM BUCHANAN LLC

Address: 350 BROADWAY

BUCHANAN, NY 10511-1010

Owner/Firm

Name: CERTAINTEED GYPSUM BUCHANAN, LLC

Address: 350 BROADWAY

BUCHANAN, NY 10511, USA

Owner Classification: Corporation/Partnership

Permit Contacts

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BUCHANAN, NY 10511

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**Permit Description
Introduction**

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project

This application is for the fourth renewal of the Air Title V Facility. This renewal incorporates the Renewal 3, Modification 2 changes which were never issued. This renewal application does not include substantive changes to permit conditions.

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Renewal 3, Modification 2 changes include installing a RotoChopper reclaim grinder to increase the reclaim board processing capacity. The reclaim grinders are to be equipped with an electric motor that will power the shredding rotor that will break apart the scrap board down to the desired size.

Attainment Status

CERTAINTEED GYPSUM BUCHANAN LLC is located in the town of CORTLANDT in the county of WESTCHESTER.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter< 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.
 ** NOx has a separate ambient air quality standard in addition to being an ozone precursor.

Facility Description:

Certainreed Gypsum Buchanan LLC owns and operates a gypsum wallboard manufacturing facility at 350 Broadway, Buchanan, New York (Buchanan Plant). This process entails utilizing finely ground gypsum, a natural rock that is crushed into a fine powder and then heated to produce stucco. The stucco is subsequently mixed with water and other additives to form a slurry. Finally, the slurry is poured onto a continuous sheet of paper, formed into a board shape, allowed to harden, and then cut to the desired lengths.

The Buchanan Plant currently operates under the Title V permit No. 3-5522-00087/00019, issued by the New York State Department of Environmental Conservation (NYSDEC) on July 20th, 2020. Certainreed Gypsum Buchanan LLC owns and operates a gypsum wallboard manufacturing facility at 350 Broadway, Buchanan, New York (Buchanan Plant). The Buchanan Plant currently operates under the Title V permit No. 3-5522-00087/00019, issued by the New York State Department of Environmental Conservation (NYSDEC) on July 20th, 2020. The facility major sources of emission are particulates and Nitrogen Oxides (NOx) associated with several regulated processes dealing with raw and reclaimed gypsum material, and synthetic gypsum material utilized during the manufacturing of wallboard. The facility employs several measures and best practices to control fugitive dust emissions and low NOx burners to control NOx emissions. The measures and best practices to control fugitive dust emission include: installation of fence screen tailored to mitigate fugitive dust around stored gypsum piles; watering, misting

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and sweeping to prevent dust generation; hydro-mulching over the standing piles to prohibit wind erosion; and curtailment of certain operations during high wind events.

Permit Structure and Description of Operations

The Title V permit for CERTAINTEED GYPSUM BUCHANAN LLC

is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

CERTAINTEED GYPSUM BUCHANAN LLC is defined by the following emission unit(s):

Emission unit 0000F1 - This emission unit represents the clamshell crane, the unloading hopper, the bin discharger and the belt conveyor. This emission unit's components are employed to convey natural (raw) or synthetic gypsum or both from the vessels up to the storage sheds. In addition, this unit represents emissions from the wind erosion of synthetic or natural gypsum stock piles. The conveyor can operate at a rate of 1,850 tons/hr.

Process: 000 is located at Building NONE - This process includes all of the fugitive particulates associated with ship unloading and stockpiling of raw natural material. Fugitives are generated when the

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main conveyor conveys raw gypsum from vessels up to the storage sheds. Modification No. 3 of the initial Title V permit (Ren 0, Mod 3) dealt with the replacement of the motor that drives the conveyor. The motor operates at a speed which enables the material transfer rate to be 1,850 tons/hr.

Process: 001 is located at Building NONE - This process includes all of the fugitive particulate sources from the unenclosed areas of the facility that are associated with management and/or processing of fresh or old reclaimed gypsum which are not regulated by a NSPS.

The facility shall ensure to hydromulch the reclaim pile that is outside and in the open.

Process: 004 is located at Building NONE - This process includes all of the fugitive particulate emission sources from unenclosed areas of the facility that are not associated with either ship unloading of natural material stockpiling or with the management and/or processing of fresh or old reclaimed gypsum or with the crusher building or with the mechanical conveyance of crushed rock.

Process: 006 is located at Building NONE - Fugitive particulate emissions occur from storage piles due to natural gypsum unloading activities, equipment traffic and wind erosion.

Process: 02A is located at Building NONE - This process describes the unloading of rock from the belt to the rock crusher.

Process: 09A is located at Building NONE - This process includes all of the fugitive particulates associated with ship unloading and stockpiling of synthetic material. Fugitives are generated when the main conveyor conveys synthetic gypsum from vessels up to the storage sheds.

Process: 09B is located at Building NONE - This process includes all of the fugitive particulate emission sources from unenclosed areas of the facility that are not associated with either ship unloading of synthetic material stockpiling or with the management and/or processing of synthetic gypsum or with the crusher building or with the mechanical conveyance of synthetic gypsum.

Process: 09C is located at Building NONE - This process includes all the fugitive particulate emission sources associated with synthetic gypsum material transfer from the unloading hopper to the belt conveyor. These fugitive emissions are occurring outdoors.

Process: 09D is located at Building NONE - This process includes all of the synthetic gypsum fugitive particulate emissions resulting from wind erosion of the synthetic gypsum stockpile.

Emission unit 0000F2 - This emission unit represents the emission sources located inside the rock hopper building, the dump hopper, the J.C. Steele Feeder and the transfer belt conveyor.

Process: 005 is located at Building Rock Hop. - This process includes all of the fugitive particulate sources from inside the rock hopper building. Particulate matter that does not settle out exits the building through wall openings, open doors and wall vents.

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Process: 10A is located at Building Rock Hop. - Front end loader pickup from pile to dump hopper.

Process: 10B is located at Building Rock Hop. - Dump hopper to transfer belt conveyor.

Emission unit 0000F3 - This emission unit represents a) all of the fugitive-natural-gypsum particulate-emission-sources associated with the crusher building which are not regulated by a NSPS and b) all the fugitive-synthetic-gypsum-particulate emission-sources associated with the short transfer screw, and the end trim elevator.

Process: 00A is located at Building MILL - This process represents all of the fugitive particulate sources from inside the crusher building including screening, crushing and conveyance. Particulate matter (from natural or synthetic gypsum) that does not settle out exists the building through wall openings, open doors and wall vents.

Process: 00B is located at Building MILL - This process includes fugitive particulate (natural or synthetic gypsum) emissions associated with the crusher building baghouse screw conveyor.

Process: 11A is located at Building MILL - This process is associated with the emission sources that generate fugitive emissions associated with the material transfer from the end trim bucket elevator to the plant feed conveyor. This process is located inside the building.

Emission unit 0000F4 - Physical modification of the existing 300 ton stucco storage bins 1 to 3 (EU-000F4, Process 00C) dust collector equipment. Each of the stucco storage bins is controlled by an identical dust collector, so three dust collectors were upgraded as part of the Ren 2 Mod 1 modification application.

Process: 00C is located at Board Plant Bldg, Building MILL - This process includes new (replaced the existing one) dust collector equipment with control efficiency of 99%, an outlet grain loading factor of 0.015 gr/dscf and an exhaust volume of 2,100 dcfm. The emissions from the dust collector equipment are captured within the enclosed mill building and are not vented out to the atmosphere.

Process: F4A is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the two Rotary Screens to Two entoleters. This process is located indoors.

Process: F4D is located at Building MILL - This process includes fugitive particulate emissions (from natural or synthetic gypsum) associated with material transport from the Plant Feed Conveyor to the Belt Conveyor A. This process is located inside the building.

Process: F4E is located at Building MILL - This process includes fugitive particulate emissions associated with the material transport from chute from plant feed conveyor to LP Mill Feed Bin. This process is located inside the building.

Process: F4F is located at Building MILL - This process includes fugitive particulate emissions associated with the material transport from the LP Mill Feed Bin to the Feed Belt Conveyor. This process is located

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inside the building.

Process: F4G is located at Building MILL - This process includes fugitive particulate emissions associated with material transport from the Feed Belt Conveyor to LP Mill. This process is located inside a building.

Process: F4H is located at Building MILL - This process includes fugitive particulate emissions associated with material transport from the Plant feed conveyor to the Calcining Belt. This process is located indoors.

Process: F4I is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the belt conveyor B to Calcining Mill Feed Bin. This process is located indoors.

Process: F4J is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Calcining Mill Feed Bin to the Weigh belt Conveyor. This process is located indoors.

Process: F4K is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Weigh Belt Conveyor to the Calcining Mill. This process is located indoors.

Process: F4L is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the collection Screw Conveyor to the Reversing Screw Conveyor. This process is located indoors.

Process: F4M is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Reversing Screw Conveyor to the Bucket Elevator. This process is located indoors.

Process: F4N is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Bucket Elevator to the Transfer Screw Conveyor. This process is located indoors.

Process: F4O is located at Building MILL - This process includes fugitive particulate emissions associated with Bin Vent Filters for LP Mill Feed Bin. This process is located inside a building.

Process: F4P is located at Building MILL - The process includes fugitive particulate emissions associated with the Bin Vent Filters for Calcining Mill Feed Bin. This process is located indoors.

Process: F4Q is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Reversing Screw Conveyor to the Sojournment Screw Conveyor. This process is located indoors.

Process: F4R is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Transfer Conveyor to the Oversize Collection System. This process is located indoors.

Process: F4S is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Oversize Collection Screw to the ground Floor. This process is located indoors.

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Process: F4T is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the two Rotary Screens to the Oversize Collection Screw. This process is located indoors.

Process: F4U is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Oversize Collection Screw to the Return Screw No.1. This process is located indoors.

Process: F4V is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the two Entoleter to the Return Screw No.1. This process is located indoors.

Process: F4W is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Return Screw No.1 to the Return Screw No.2. This process is located indoors.

Process: F4X is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the screw No.2 to the Sojourner Screw Inlet. This process is located indoors.

Process: F4Y is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Return Screw No.2 to the Sojourner Screw Outlet. This process is located indoors.

Process: F4Z is located at Building MILL - The process includes fugitive particulate emissions associated with material transport from the Transfer Screw Conveyor to Two Rotary Screens. This process is located indoors.

Emission unit 0000F5 - This emission unit represents all of the fugitive particulate sources associated with the newly installed equipment inside the plant that are regulated by a NSPS.

Process: 00D is located at Building MAIN PLANT - This process includes fugitive particulate matter emissions from buildings that house indoor production processes that are subject to 40 CFR part 60, Subpart OOO.

Emission unit 0000F6 - This emission unit covers the rock crusher and associated equipment located inside the crusher building. The rock crusher is subject to NSPS Subpart OOO.

Process: 06A is located at Building CRUSHER - This process comprises the crushing of rock inside the crusher building. Particulate matter is the pollutant associated with this process.

Emission unit 0000F7 - This emission unit covers the gypsum waste crusher, feeder, hopper and associated conveying equipment inside the crusher building. The crusher and feeder, located inside the crusher building, is subject to NSPS Subpart OOO requirements.

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Process: 08A is located at Building CRUSHER - This process covers the Williams crusher for mixed dry and wet waste board located inside the crusher building. Particulate matter that does not settle out may escape the building through wall openings, open doors and wall vents. The waste crusher will be subject to NSPS OOO requirements.

Process: 08B is located at Building CRUSHER - This process covers the loading North Hopper for de-papered pulverized board located outside the crusher building. This process will only generate fugitive particulate emissions. Loading to the North Hopper will be done through a front end loader. This process is exempt from requirements of NSPS subpart OOO.

Process: 08C is located at Building CRUSHER - This process covers the North J.C. Steele feeder for feeding the de-papered pulverized waste board to the main plant conveyor belt. This process will be located inside the crusher building. Particulate matter that does not settle out may escape the building through wall openings, open doors and wall vents. The feeder will be subject to NSPS subpart OOO.

Process: 08D is located at Building CRUSHER - There are total of three drop points associated with the conveying system which are as follows: 1) From loader to J.C. Steele Feeder, 2) From J.C. Steele feeder to incline belt, and 3) From Z conveyor to J.C. Steele Double Metering Feeder. The process throughout of each drop point is 20 tons per hour, therefore, the combined throughput is listed as 60 tons per hour.

Process: 07A is located at Building CRUSHER - This process involves the conveying of reclaimed gypsum via the receiving North Hopper and the reclaiming conveyor. This process may generate emissions of particulate matter.

Process: 07B is located at Building CRUSHER - This process involves the metering on reclaim conveyor feeder system. Associated emissions include particulate matter.

Emission unit 0000F8 - This emission unit represents all the fugitive-reclaimed-gypsum particulate emissions associated with the crushing, transfer and storage of crusher reclaim gypsum material associated with new electric RotoChopper equipment and the existing Trommel.

The Trommel utilizes a portable mister and a DustBoss Machine if there is an increase in dust.

Upon permit issuance, the Rotochopper will be permanently bolted on a concrete pad. The Rotochopper will be connected to the electric grid thru a port installed on the roof of the A-structure. The rotochopper is equipped with a wet mister which will spray water when the rotochopper is in operation to suppress generation of dust (PM) clouds.

The equipment is subject to NSPS Subpart OOO.

Process: 88A is located at Building NONE - This process generates fugitive particulate matter emissions

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associated with the operation of the RotoChopper's reclaim grinder.

the Rotochopper will be permanently bolted on a concrete pad. The Rotochopper will be connected to the electric grid thru a port installed on the roof of the A-structure.

The A-Structure has DustTamer™ 6517 50% POROUS wind screens specifically chosen to reduce fugitive-reclaimed-gypsum particulate emissions.

Emission unit 000E17 - The Landplaster Mill (LP Mill) consists of a low NOx burner with maximum heat input capacity of 0.70 MMBtu/hr. The unit includes a double cone classifier, air heater, system fan, dust collector and connective duct work. NOx emissions for the LP Mill burner are calculated based on ventor guarantee emission factors.

Emission unit 000E17 is associated with the following emission points (EP):

OPT17

Process: 17A is located at Building LP Mill - This process involves all combustion and particulate emissions related to the operation of the Landplaster Mill when natural gypsum is the material processed. The Landplaster Mill is equipped with a baghouse for particular control and a low NOx burner rated at maximum heat input capacity of 0.7 MMBtu/hr. NOx emissions from this burner along with emissions from the board dryer (EU38) and Calcining Mill (EU 30) are capped at 40.15 tons per year.

Process: 17B is located at Building LP Mill - This process involves all combustion and particulate emissions related to the operation of the Landplaster Mill when synthetic gypsum is the material processed. The Landplaster Mill is equipped with a baghouse for particulate control and a low NOx burner rated at maximum heat input capacity of 0.7 MMBtu/hr. NOx emissions from this burner along with emissions from the board dryer (0-00E38) and Calcining Mill (0-00E30) are capped at 40.15 tons per year.

Emission unit 000E30 - This emission unit comprises the Calcining Mill system. The system consists of an 111 mmbtu/hr natural gas operated Low NOx burner and it is designed to further grind natural or synthetic gypsum while removing free moisture and chemically bound water from the gypsum, forming stucco.

The combined process stream consisting of stucco and combustion byproducts is vented through a bag house system to separate stucco from gas. Bag house performance is based on a pressure differential which is set in accordance with manufacturer's recommendations.

Emission unit 000E30 is associated with the following emission points (EP):

OPT30

Process: 030 is located at Building MILL - This source serves the combustion and process emissions of the Calcining Mill system. The mill system has a design heat input rating of 111 MMBtu/hr and combusts

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natural gas.

Emission unit 000E31 - This emission unit consists of a stucco cooling system that vents to a dedicated baghouse.

Emission unit 000E31 is associated with the following emission points (EP):

OPT31

Process: 031 is located at Building MILL - This process consists of a stucco cooling system venting to a dedicated baghouse.

Emission unit 000E32 - This emission unit comprises all air contamination sources located in the "dry additives" area.

Emission unit 000E32 is associated with the following emission points (EP):

OPT32

Process: 032 is located at Building PLANT - This process comprises the addition of additives to the slurry that will become wall board. Its emissions are vented outdoors through a baghouse.

Emission unit 000E33 - This emission unit comprise the end trim saw process and its associated controls.

Emission unit 000E33 is associated with the following emission points (EP):

OPT33

Process: 033 is located at Building PLANT - This process includes the end trim baghouse controlling emissions from sawing in the dry end of the plant, sawing up dunnage at the dunnage machine, trimming the edges of the boards after drying, and sawing the boards to length.

Emission unit 000E38 - This emission unit consists of a board dryer. The dryer has a maximum heat input capacity of 157 mmbtu/hr.

Emission unit 000E38 is associated with the following emission points (EP):

OPT38

Process: 038 is located at Building PLANT - This process involves the drying of the boards.

Process: PRP is located at Building PLANT - This process involves the addition of a proprietary "product" during wall board manufacturing.

Emission unit 000E39 - Aerosol Emptying System - Fugitive Emissions of VOC - Insignificant emissions activity

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An insignificant VOC emissions increase of about 0.0125 tons/year has been documented. This amount constitutes an insignificant increase and it is attributed to various types of aerosol can products that are used within the facility for maintenance activities.

Before properly disposing of aerosol cans, their contents are emptied at two aerosol can puncturing stations. The equipment is an "off the shelf" system that punctures a hole in the can to release pressure and allows its contents to empty into an attached 55-gallon drum. The outlet of the drum is fitted to capture mists and VOCs. The filters are changed when they are full. The drums are disposed of as a hazardous waste. The aerosol can emptying system has been in place at the site since 2011.

The aerosol can emptying system may produce minimal amounts of fugitive VOC emissions. It is estimated that approximately 250 lbs of flammable liquids and propellants from aerosol cans may be captured and disposed of in drums each year. It is expected that the control system (drum and filters) will capture at least 90% of the evacuated material. Thus the process will generate less than 25 lbs/yr of VOC.

Process: E39 is located at Building MAIN PLANT - Aerosol cans emptying and VOC capturing system.

Title V/Major Source Status

CERTAINTeed GYPSUM BUCHANAN LLC is subject to Title V requirements. This determination is based on the following information:
 CertainTeeD Gypsum Buchanan LLC is subject to Title V Requirements. This facility is major for Nitrogen Oxides (NOx) since the potential to emit (PTE), 40.15 tons per year of NOx, is greater than the Title V thresholds, 25 tons per year of NOx.

Program Applicability

The following chart summarizes the applicability of CERTAINTeed GYPSUM BUCHANAN LLC with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	YES
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	YES

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SIP	YES
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NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52.21, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

MACT Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV Acid Rain Control Program (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212-3, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as

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the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code	Description
3275	GYPSUM PRODUCTS

SCC Codes

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information.Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code	Description
3-05-015-03	MINERAL PRODUCTS MINERAL PRODUCTS - GYPSUM MANUFACTURE NOT CLASSIFIED **
3-05-015-04	MINERAL PRODUCTS MINERAL PRODUCTS - GYPSUM MANUFACTURE Conveying
3-05-015-05	MINERAL PRODUCTS MINERAL PRODUCTS - GYPSUM MANUFACTURE
3-05-015-08	PRIMARY CRUSHING: GYPSUM ORE MINERAL PRODUCTS MINERAL PRODUCTS - GYPSUM MANUFACTURE Stockpile: Gypsum Ore
3-05-015-13	MINERAL PRODUCTS MINERAL PRODUCTS - GYPSUM MANUFACTURE Impact Mill
3-05-015-18	MINERAL PRODUCTS MINERAL PRODUCTS - GYPSUM MANUFACTURE Mixers/Conveyors
3-05-015-20	MINERAL PRODUCTS MINERAL PRODUCTS - GYPSUM MANUFACTURE Drying Kiln
3-05-040-30	MINERAL PRODUCTS MINERAL PRODUCTS - MINING & QUARRYING OF NONMETALLIC MINERALS Primary Crusher
3-05-103-98	MINERAL PRODUCTS MINERAL PRODUCTS - BULK MATERIALS OPEN STOCKPILES Mineral: Specify in Comments
3-05-105-98	MINERAL PRODUCTS MINERAL PRODUCTS - BULK MATERIALS LOADING

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4-90-999-98

OPERATION
 Mineral: Specify in Comments
 ORGANIC SOLVENT EVAPORATION
 MISCELLANEOUS VOLATILE ORGANIC COMPOUND
 EVAPORATION
 Identify the Process and Solvent in
 Comments

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
000124-38-9	CARBON DIOXIDE	306400			
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS	262654000			
000050-00-0	FORMALDEHYDE	168.5			
0NY210-00-0	OXIDES OF NITROGEN	80300			
0NY075-00-0	PARTICULATES	432220			
0NY075-00-5	PM-10	121640			
0NY075-02-5	PM-2.5	88980			
007446-09-5	SULFUR DIOXIDE	4400			
0NY100-00-0	TOTAL HAP	5560			
0NY998-00-0	VOC	48000			

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10(b)
 The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to

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6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item B: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.2(a)(4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item C: Certification by a Responsible Official - 6 NYCRR Part 201-6.2(d)(12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item D: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.4(a)(2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.4(a)(3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4(a)(5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item G: Property Rights - 6 NYCRR 201-6.4(a)(6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item H: Severability - 6 NYCRR Part 201-6.4(a)(9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item I: Permit Shield - 6 NYCRR Part 201-6.4(g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and

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are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item J: Reopening for Cause - 6 NYCRR Part 201-6.4(i)

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 2 01-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

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Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6(b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
- (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of

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proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement. item_02

**Item B: General Provisions for State Enforceable Permit Terms and Condition - 6
NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
-- FACILITY	ECL 19-0301	53	Powers and Duties of the Department with respect to air pollution control
0-00E17	40CFR 60-A.8	41	General provisions - Performance tests
0-000F8	40CFR 60-000.672 (b)	39	Rock, gravel, sand, and clay processing and conveying - standard for particulate matter
FACILITY	40CFR 60-000.672 (e)	35, 36	Rock, gravel, sand, and clay processing and conveying - standard for particulate matter
0-00E30/0PT30	40CFR 60-UUU	44	Standards of performance for calciners and dryers in mineral industries
0-00E30/0PT30	40CFR 60-UUU.732 (a)	45	Standards of performance for calciners and dryers in mineral industries
0-00E31	40CFR 64	47, 48	standards for particulate matter COMPLIANCE ASSURANCE MONITORING
FACILITY	40CFR 68	17	Chemical accident prevention provisions

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FACILITY	40CFR 82-F	18	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	9	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	54	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	10	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	11	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2 (a)	12	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3 (a)	13	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	19, 37, 38	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a) (4)	14	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (7)	2	General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (a) (8)	15	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c)	3	Recordkeeping and Reporting of Compliance Monitoring Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4 (c) (2)	4	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4 (c) (3) (ii)	5	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4 (d) (4)	20	Compliance Certification
FACILITY	6NYCRR 201-6.4 (e)	6	Operational Flexibility
FACILITY	6NYCRR 201-6.4 (f)	21	Operational Flexibility - Protocol
FACILITY	6NYCRR 201-6.4 (f) (2)	22	State Enforceable Requirements
FACILITY	6NYCRR 201-6.5 (a)	55	State Enforceable Requirements
0-000F8	6NYCRR 201-6.5 (a)	59	State Enforceable Requirements
FACILITY	6NYCRR 201-7.1	23	Emission Capping in Facility Permits
FACILITY	6NYCRR 202-1	26, 27, 28	Emission Testing, Sampling and Analytical Determinations
FACILITY	6NYCRR 202-1.1	16	Required emissions tests.
FACILITY	6NYCRR 202-2.4 (a) (3)	29	Emission statement methods and procedures

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FACILITY	6NYCRR 202-2.5	7	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	56, 57	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	30	General Prohibitions - visible emissions limited.
0-00E38/OPT38	6NYCRR 212-1.3	49	Determination of Environmental Rating
0-00E38/OPT38/PRP	6NYCRR 212-1.5 (d)	50, 51, 52	BACT or T-BACT for process emission sources
FACILITY	6NYCRR 212-1.5 (g)	31	Maintain all process emission sources, including the associated air pollution control and monitoring equipment
0-00E17	6NYCRR 212-1.5 (g)	40	Maintain all process emission sources, including the associated air pollution control and monitoring equipment
0-00E17/OPT17	6NYCRR 212-1.6 (a)	42	Limiting of Opacity
0-00E31	6NYCRR 212-1.6 (a)	46	Limiting of Opacity
FACILITY	6NYCRR 212-2.4 (b)	32	Control of Particulate from New and Modified Process Emission Sources
FACILITY	6NYCRR 212-3.1 (c) (1)	33	Required Compliance Plans for applicable 212-3 emission sources
FACILITY	6NYCRR 215.2	8	Open Fires - Prohibitions
FACILITY	6NYCRR 221.2	58	Prohibition.
FACILITY	6NYCRR 227-1.4 (a)	34	Opacity Standard
0-00E30/OPT30	6NYCRR 227-2.4 (g)	43	Other combustion installations.

Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-0301

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6 NYCRR 200.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

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6 NYCRR 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR 201-3.3 (a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6 NYCRR Subpart 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and

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monitoring, as necessary.

6 NYCRR 201-6.4 (c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (4)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6 NYCRR 211.2

This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68

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This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements

In addition to Title V, CERTAINTeed GYPSUM BUCHANAN LLC has been determined to be subject to the following regulations:

40 CFR 60.672 (b)

This citation states the fugitive emission limits and compliance requirements for Subpart OOO.

40 CFR 60.672 (e)

This citation states the emission limits for an affected facility enclosed by a building.

40 CFR 60.732 (a)

This citation states the standard for particulate matter for calciners and for calciners and dryers in series.

40 CFR 60.8

This general provision of the New Source Performance Standards or NSPS, sets forth the performance test requirements for all NSPS applicable sources. Basically, all performance tests must be conducted within 60 days after achieving the maximum production rate but no later than 180 days after initial startup using procedures consistent with methods and procedures approved by the Administrator.

40 CFR Part 60, Subpart UUU

This regulation sets forth the limitations on emissions from calciners and dryers in mineral industries. The emissions of particulates from stacks at these facilities are limited to 0.040 grains per dry standard cubic foot. In addition, the opacity from these stacks may not exceed 10%.

40 CFR Part 64

The federal Compliance Assurance Monitoring (CAM) rule, 40 CFR Part 64, requires monitoring of control device, capture system, and/or process parameters to provide a reasonable assurance of

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compliance with emission limitations or standards. It applies to emission units that use a control device to comply with certain standards and limitations and that have potential pre-control device emissions equal to or greater than a major source threshold.

Acid Rain program requirements; stratospheric ozone protection requirements; post-1990 New Source Performance Standards, Emission Guidelines, and National Emission Standards for Hazardous Air Pollutants; and some other limitations are exempt from CAM. However, many of the exempt requirements are subject to less stringent periodic monitoring under 40 CFR Part 70 and 6NYCRR Subpart 201-6.

6 NYCRR 201-6.4 (f)

This section describes the potential for certain operational changes to be made by the facility owner or operator without first obtaining a permit modification. Changes made pursuant to this provision must meet all of the criteria described in this section to qualify for consideration as operational flexibility. The Department reserves the right to require the facility owner or operator to obtain a permit modification prior to making any changes at the facility pursuant to this section.

6 NYCRR 201-6.4 (f) (2)

This section describes the requirements for operational flexibility protocols included in Title V permits. The facility owner or operator may make certain changes to the facility that have been reviewed and approved pursuant to the protocol without first obtaining a permit modification for those changes.

6 NYCRR 201-6.5 (a)

This subdivision states that the Department shall include state enforceable conditions in Title V permits. State enforceable conditions related to regulations developed pursuant to the Climate Leadership and Community Protection Act (CLCPA) and Article 75 of New York State Environmental Conservation Law may be included in future versions of this permit, as applicable.

6 NYCRR 201-7.1

This section of Part 201-7 specifies the criteria that need to be met in order to restrict emissions to avoid Title V or other applicable requirements using federally enforceable permit conditions permit.

6 NYCRR 202-2.4 (a) (3)

Once a facility is required to submit annual emission statements electronically, emission statements must be submitted to the department per the specified schedule, in this regulation beginning the reporting year that a Title V permit containing a condition mandating electronic submittal is issued.

6 NYCRR 211.1

This regulation requires that no person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life

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or to property, or which unreasonably interfere with the comfortable enjoyment of life or property.

6 NYCRR 212-1.3

Based upon the following requirements, all air contaminants will assigned an Environmental Rating from A to D.

- (a) Toxic and other properties and emission rate potential of the air contaminant;
- (b) location of the process emission source or emission point(s) for the air contaminant with respect to residences or other sensitive environmental receptors, taking into account the area's anticipated growth;
- (c) emission dispersion characteristics at or near the process emission source or emission point(s), taking into account the physical location of the process emission source or emission point(s) relative to the surrounding buildings and terrain; and
- (d) the projected maximum cumulative impact of an air contaminant taking into account emissions from all process emission sources at the facility under review and the pre-existing ambient concentration of the air contaminant under review.

6 NYCRR 212-1.5 (d)

This provision allows for the department to specify a less restrictive permissible emission rate or degree of air cleaning for the process emission source or emission point than required under Subpart 212-2 in instances where a facility owner or operator can demonstrate to the satisfaction of the department that the facility owner will apply the Best Available Control Technology (BACT) for that criteria air contaminant or the Best Available Control Technology for a toxic air contaminant (T- BACT).

6 NYCRR 212-1.5 (g)

This provision requires the facility owner or operator to operate and maintain all process emission sources, including the associated air pollution control and monitoring equipment, in a manner consistent with safety, good air pollution control practices, good engineering practices and manufacturers' recommendations for minimizing emissions.

6 NYCRR 212-1.6 (a)

This provisions requires that the facility owner or operator not cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source or emission point, except for the emission of uncombined water.

6 NYCRR 212-2.4 (b)

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Particulate emissions from any process emission source, which received a B or C Environmental Rating, and for which an application was received by the department after July 1, 1973 are restricted to 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis.

6 NYCRR 212-3.1 (c) (1)

This condition states the requirements for compliance plans for sources subject to 212-3.

6 NYCRR 221.2

This regulation requires that no person shall engage in or allow surface coating by the spraying of asbestos or asbestos-containing materials.

6 NYCRR 227-1.4 (a)

This subdivisions sets the opacity standard for subject stationary combustion installations.

6 NYCRR 227-2.4 (g)

This subdivision establishes NOx RACT for emission sources that are subject to this rule but not specifically regulated under the other source categories of this rule.

6 NYCRR Subpart 202-1

This subpart of Part 202 establishes the general criteria for verifying emissions by means of emissions sampling, testing and associated analytical determinations.

Compliance Certification

Summary of monitoring activities at CERTAINTEED GYPSUM BUCHANAN LLC:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring

0-00E17	41	record keeping/maintenance procedures
0-000F8	39	monitoring of process or control device parameters as surrogate
FACILITY	35	monitoring of process or control device parameters as surrogate
FACILITY	36	monitoring of process or control device parameters as surrogate
0-00E30/OPT30	44	monitoring of process or control device parameters as surrogate
0-00E30/OPT30	45	intermittent emission testing

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0-00E31	47	record keeping/maintenance procedures
0-00E31	48	record keeping/maintenance procedures
FACILITY	4	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	22	record keeping/maintenance procedures
0-000F8	59	monitoring of process or control device parameters as surrogate
FACILITY	24	monitoring of process or control device parameters as surrogate
FACILITY	25	monitoring of process or control device parameters as surrogate
FACILITY	26	record keeping/maintenance procedures
FACILITY	27	monitoring of process or control device parameters as surrogate
FACILITY	28	monitoring of process or control device parameters as surrogate
FACILITY	57	record keeping/maintenance procedures
0-00E38/OPT38	49	ambient air monitoring
0-00E38/OPT38/PRP	50	monitoring of process or control device parameters as surrogate
0-00E38/OPT38/PRP	51	monitoring of process or control device parameters as surrogate
0-00E38/OPT38/PRP	52	intermittent emission testing
0-00E17	40	monitoring of process or control device parameters as surrogate
0-00E17/OPT17	42	monitoring of process or control device parameters as surrogate
0-00E31	46	monitoring of process or control device parameters as surrogate
FACILITY	32	intermittent emission testing
FACILITY	33	record keeping/maintenance procedures
FACILITY	34	monitoring of process or control device parameters as surrogate
0-00E30/OPT30	43	record keeping/maintenance procedures

Basis for Monitoring

The Facility is monitored for Oxides of Nitrogen, Emissions of Particulates and Emissions of Volatile organic compounds.

Facilities that release certain air pollutants must create a compliance plan. The plan needs to identify the pollution controls used for each source that emits nitrogen oxides (NOx) or volatile organic compounds (VOC) at large facilities. This is called Reasonably Available Control Technology or RACT. RACT applies to major facilities of NOx which have emission sources such as, small-very large boilers, combustion turbines, and stationary internal combustion engines, or any other combustion installations

The plan must also list smaller emission sources that release less than 3 pounds per hour and 15 pounds per day of NOx or VOC without pollution controls if the facility is located in Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, Woodbury, or the New York City metropolitan area. In simple terms, the plan must document both major and certain smaller sources of these air pollutants and explain how they are being controlled. This facility uses control methods such as: installation of fence screen tailored to mitigate fugitive dust around stored gypsum piles; watering, misting and sweeping to prevent dust generation; hydro-mulching over the standing piles to prohibit wind erosion; employing low NOx burners; and curtailment of certain operations during high wind events.

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Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative).

Condition 24, 6 NYCRR 201-7.1 - The facility is limiting the annual natural gas usage to 2,125,790,000 cubic feet to be calculated from fuel records. The facility is capping out of 6 NYCRR 231-2 by limiting annual natural gas usage, which reduces the NO_x TO 40.15 tons per year. NO_x is calculated based off of fuel usage, emission factor and/or emission rates. The facility is required to maintain monthly records and to submit a semi-annual (calendar) certification verifying compliance with the limit.

Condition 25, 6 NYCRR 201-7.1 - This monitoring condition caps the NO_x emissions from the existing Calcining mill, new Landplaster Mill, and the existing Board Dryer to 40.15 tons per year (EUs 0-00E17, 0-00E39, and 0-00E38). The Facility shall maintain fuel records based on which the annual NO_x emissions (rolled monthly) will be calculated. NO_x will be calculated based off of fuel usage, emission factor and/or emission rates. NO_x emissions shall be submitted semiannually (calendar), 30 days after reporting period.

Condition 26, 6 NYCRR Subpart 202-1 - This monitoring condition requires the facility shall test the synthetic gypsum once a year to determine and quantify the presence of mercury or heavy metals or both in the synthetic gypsum. The EPA Approved Test Method shall be conducted in a federal or state certified laboratory. This facility is required to annually (calendar) submit this report 30 days after the reporting period.

Condition 27, 6 NYCRR Subpart 202-1 - The facility shall perform a performance test as required by 40CFR60.672 (b), once per permit term. This determines whether there is visible opacity, tested by EPA Method 22 consisting of EUs: 0-000F1, 0-000F2, 0-000F4. Opacity levels have an upper limit of 10 percent, ascertained by Method 9.

Condition 28, 6 NYCRR Subpart 202-1 - The facility shall perform a performance test as required by 40CFR60.672 (b), once per permit term. This determines whether there is visible opacity, tested with EPA Method 22. Opacity levels have an upper limit of 15 percent for the following EUs: 0-000F3, 0-000F6, 0-000F7, ascertained by Method 9.

Condition 32, 6 NYCRR 212-2.4 (b) – This condition requires the facility to perform Method 5 testing once every five years to determine emissions of particulate that exceed 0.050 grains per cubic foot of exhaust gas expressed at standard conditions on a dry gas basis. This is reported when testing is performed.

Condition 33, 6 NYCRR 212-3.1 (c) (1) - This condition ensures that the facility is meeting air pollution requirements by using an approved Reasonable Available Control Technology (RACT). This plan is

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submitted once for approval. The facility utilizes a low-NOx burner technology, which helps reduce nitrogen oxide (NOx) emissions. The facility must monitor its emissions to demonstrate ongoing compliance. A NOx RACT plan has been submitted and approved by the department. No other submission is required.

Condition 34, 6 NYCRR 227-1.4 (a) - This condition states the facility will conduct DAILY observations of visible emissions from the emission units at the facility to ensure there are no emissions with opacity greater than 20 percent (six-minute average) except for one-six-minute period per hour of not more than 27 percent opacity. If the visible emissions are going above the opacity standard, the facility should investigate in a timely manner. New York State Department of Environmental Conservation (NYSDEC) has the right to perform and request Method 9 Opacity Evaluation at any time during facility operation. Records of visible emissions observations or any Method 9s, investigations should be kept on site and accessible to NYSDEC. If the facilities record keeping format is inadequate, then the facility shall have 90 days to revise its record keeping format. This is to be reported semi-annually.

Condition 35, 40CFR 60.672(e), NSPS Subpart OOO - The monitoring condition requires transfer points on a conveyor belt in an enclosed affected facility to comply with the set limit of 0.022 grains per dscf for Particulates. The facility shall perform tests to determine compliance upon request.

Condition 36, 40CFR 60.672(e), NSPS Subpart OOO - This monitoring condition requires the facility to observe emissions from the stack on a daily basis and record the results. If visible emissions are observed for two consecutive days, a Method 9 analysis shall be performed. The upper limit is 7 percent, tested by Method 9, for the parameter, Particulates. The monitoring frequency is performed daily and semi-annually (calendar) reported (30 days after reporting period).

Condition 39, 40CFR 60.672(b), NSPS Subpart OOO - This monitoring condition requires the facility to perform Method 9 to determine opacity with an upper limit of 12 percent for EU 0-000F8. The facility owner or operator must conduct a Method 9 observation of sources without either water sprays or water carryover from upstream water sprays a minimum of once every 5 years.

Condition 40, 6 NYCRR 212-1.5 (g) - This monitoring condition requires the facility to monitor the baghouses to ensure proper operation by monitoring the pressure differential across the device at least once daily on days the emission unit is operated for the EU 0-00E17 with an upper limit of 6.5 pounds per square inch gauge.

Condition 42, 6 NYCRR 212-1.6 (a) - This condition states that the facility cannot have emissions with an opacity of 20 percent or greater, except only the emission of uncombined water, from any process emission source. In addition, the facility must conduct daily observations of visible emissions, during daylight hours, from the emission unit, to which this applies, except during adverse weather conditions. These observations must be logged with details such as: date, time, observers name, emission point, weather

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condition, and if plume was visible. Method 9 opacity evaluations should be performed at least once per calendar year while the source is operations. This is reported semi-annually.

Condition 43, 6 NYCRR 227-2.4 (g) - This monitoring condition demonstrates compliance of the facility utilizing low NO_x burner technology for Emission Unit (EU), 0-00E30, and Emission Point (EP), 0PT30. A NO_x RACT has been submitted and approved by the department. The monitoring frequency is as required.

Condition 44, 40CFR 60, NSPS Subpart UUU - This monitoring condition states that the facility will perform inspection and maintenance of the Emission Unit (EU), 0-00E30, and Emission Point (EP), 0PT30. The emissions from the stack will be observed on a daily basis and results will be recorded. If visible emissions are observed for two consecutive days, a method 9 analysis shall be performed.

Condition 45, 40CFR 60.732(a), NSPS Subpart UUU - This monitoring condition states that no emissions shall be discharged into the atmosphere that contain particulate matter in excess of 0.092 gram per dry standard cubic meter (0.040 grains per dry standard cubic foot) from this Emission Unit (EU), 0-00E30, and Emission Point (EP), 0PT30. This performance test (via Method 5, Method 9, or other EPA Approved Method) shall be repeated once every five years. Tests results will be submitted to the department within 30 days of the test.

Condition 46, 6 NYCRR 212-1.6 (a) - This monitoring condition requires that the facility is responsible for operating a baghouse under the manufacturers recommended pressure range and that the bag house differential shall be checked for Emission Unit (EU) 0-00E31. This ensures that opacity requirements shall be satisfied. Opacity shall be observed visually once a day. If an exceedance is noted, Method 9 shall be performed with upper limit of 20 percent. This is to be reported semi-annually (calendar), report due 30 days after reporting period.

Condition 48, 40 CFR Part 64 - This monitoring condition states Compliance Assurance Monitoring for Emission Unit (EU) 0-00E31. The owner or operator shall submit to the permitting authority a monitoring plan that satisfies the design requirements in 40 CFR 64.3. The monitoring plan shall include the indicators to be monitored such as no visible emissions and the baghouse pressure drop not to exceed 12 inches of H₂O column. The monitoring frequency is daily and to be reported semi-annually (calendar), the report due 30 days after reporting period.

Condition 49, 6 NYCRR 212-1.3 - Initial stack testing shall be carried out 180 days after commencement of full-scale operation of the new process "PRP". Formaldehyde emissions shall not exceed the upper limit, 30 micrograms per cubic meter. This rate has been demonstrated after initial performance stack testing was carried out at the Buchanan Plant. The initial performance test was completed demonstrating compliance.

Condition 50, 6 NYCRR 212-1.5 (d) - This monitoring condition requires that the facility shall calculate the total formaldehyde emitted using emission factors established from the most recent stack tests. Annual emissions of formaldehyde shall not exceed 1500 pounds per year, for the following: Emission Unit (EU) 0-00E38, Emission Point (EP) 0PT38, Process PRP. Stack testing is required once every five years, to confirm emission factors. Air dispersion modeling analysis shall be repeated upon request.

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Condition 51, 6 NYCRR 212-1.5 (d) - This monitoring condition states the facility is permitted to use the additive "product" in such quantity as the maximum value of 120,000 gallons per year and is to be monitored monthly. This value was determined from dispersion modeling performed by the facility. This is to be reported annually (calendar), report due 30 days after reporting period.

Condition 52, 6 NYCRR 212-1.5 (d) - This monitoring condition states that the Formaldehyde Emission Rate is demonstrated after initial performance stack testing (via Method 320) and stack test done on April 9th and 10th of 2025. Stack testing/monitoring frequency shall be carried out once per five years. The Formaldehyde Emission Rate is 3.53 pounds per hour.

Condition 57, 6 NYCRR 211.1 - The monitoring condition requires the facility shall establish a dust complaint response procedure to manage complaints related to air emissions from this facility. The facility must maintain records of any investigations for a period of at least five years. The monitoring frequency is as required per the monitoring description and report to the regulatory agency upon request.

Condition 59, 6 NYCRR 201-6.5 (a) - The monitoring condition requires the facility to limit operation of the trommel and the rotochopper to 8760 hours total for both. This avoids an emission increase from operation of new equipment. The facility shall install an hour-meter on each (the trommel and the rotochopper) equipment to record the time each equipment operates and report the hours in the annual and semiannual reports. The monitoring frequency is continuous.

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