

additive, in addition to the manufacture of regular wallboard. However, due to economic conditions and the developing technology involved in making EXP wallboard containing silicone, the Apollo Beach Plant has not yet manufactured this product. However, since the AC permit did not require compliance testing for VOC/HAPs, and emission factors from tests conducted at similar plants in the U.S. were used to calculate the PTE, New NGC will maintain the flexibility to manufacture EXP wallboard containing silicone additive in this permit renewal.

In addition, during the renewal review period, New NGC requested authorization to install and operate a bin vent filter on top of the stucco screw which feeds the pin mixer. The stucco screw is immediately above the pin mixer and provides stucco to the mixer itself, with any overflow stucco going to the stucco elevator at the discharge end of the screw. The bin vent will service only the stucco screw, and the collected material will be discharged back into the stucco screw itself. The 300 acfm bin vent (Model No. is 36-BXBC-18 (IIG), made by Met-Pro, will discharge inside the building, and therefore, can be included with the other nineteen (19) small indoor-venting baghouses that are reflected under EU 13, Internal Material Handling. Furthermore, upon further review of EU No. 013, it was noted that the emissions calculations did not take into consideration a 90% control efficiency for the building enclosure. Currently, the PM potential-to-emit (PTE) from this EU, was estimated to be 4.7 tons per year. However, the PTE for this EU was re-calculated, taking into consideration the building enclosure with the addition of the bin vent baghouse for the stucco screw conveyor above the pin mixer, which resulted in a total PTE for EU 013 of 0.47 tons per year. Based on this information, EU No. 013 can be exempted from PM RACT pursuant to Rule 62-296.700(2)(c), F.A.C., and also from air permitting pursuant to Rule 62-210.300(3)(b)1., F.A.C. Therefore, EU No. 013 has been removed from the operation permit.

Also at the facility are two (2) emergency CI ICE generators. One generator can power the dry end of the plant in the event of a loss of electrical power. The other generator can power the wet end of the plant. Both of these emergency generators are categorically exempt from air permitting pursuant to Rule 62-210.300(3)(a)35., F.A.C. However, the engines are subject to 40 CFR 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The main requirements from this rule are operation and maintenance practices. The compliance date for this rule is May 3, 2013.

The facility is subject to the PM RACT requirements of Rules 62-296.711 and 62-296.712, F.A.C., and Chapter 1-3.52, Rules of the EPC, which limits visible emissions to a 5% opacity standard. In addition, portions of the facility (the four Imp Mills, the gypsum rock/BPG silo, the waste wallboard crusher, gypsum handling and storage, the raw material conveyor system, and the Imp Mill building) are subject to 40 CFR 60 Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants. However, the State and Local emissions standards are more stringent than the Federal emissions standards, therefore, the facility must comply with the State and Local emissions standards.

No citizen complaints have been received regarding the facility in the last five years. In June 2008, Warning Notice No. 2008-9577A was issued for exceeding the maximum hourly silo loading rate for EU No. 007 - Gypsum Rock/BPG Silo. The facility requested a revision to their permit, which resulted in Permit No. 0571242-007-AC, in order to correct the error on the silo loading rate. The warning notice was closed without any further enforcement action. In addition, in October 2008, Warning Notice No. 2008-9692A was issued for using a wax emulsion as an additive in the production of wallboard without obtaining a construction permit for the use of the additive. The warning notice was closed without any further enforcement action.

because the emissions increase due to the addition of the wax emulsion additive was expected to be negligible. In October 2012, Warning Notice No. 2012-0214A was issued for improper operation and maintenance on one of the internal material handling baghouses. The warning notice was closed without enforcement since the problem was addressed in a timely manner and a re-inspection of the facility documented compliance. No other warning notices or enforcement actions have been issued to the facility in the last five years.

Based on our review, we recommend issuance of the operation permit renewal as drafted.

ENVIRONMENTAL PROTECTION COMMISSION OF
HILLSBOROUGH COUNTY, as Delegated by

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

John Corsi
Senior Vice President
Manufacturing Operations & Engineering
New NGC, Inc.
2001 Rexford Road
Charlotte, NC 28211 _____/

File No.: 0571242-011-AO
County: Hillsborough

Enclosed is renewal Permit Number 0571242-011-AO to operate a gypsum wallboard manufacturing plant that utilizes natural and synthetic gypsum to manufacture regular wallboard, XP, and EXP wallboard, issued pursuant to Section 403.087, Florida Statutes. Please read this new permit thoroughly as there are changes from the previous permit.

The EPC will issue the final permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Section 120.569 and 120.57 F.S. before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Dr., Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2660. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 (fourteen) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 (fourteen) days of receipt of this permit. Under Section 120.60(3), however, any person who asked the EPC for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the

petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the F.A.C.

A petition that disputes the material facts on which the EPC's action is based must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number if known;
- (b) The name, address, and telephone number of the petitioner and the name, address, and telephone number of each petitioner's representative, if any, which shall be the address for service purposes during the course of the proceedings; and an explanation of how the petitioner's substantial interests will be affected by the EPC's determination;
- (c) A statement of how and when the petitioner received notice of the EPC action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the EPC's proposed action;
- (f) A statement of specific rules or statutes the petitioner contends requires reversal or modification of the EPC's proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the EPC to take with respect to the EPC's proposed action.

A petition that does not dispute the material facts upon which the EPC's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the EPC's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the EPC on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573, F.S. is not available in this proceeding.

This action is final and effective on the date filed with the Clerk of the EPC unless a petition is filed in accordance with above. Upon the timely filing of a petition, this order will not be effective until further order of the EPC.

Any person listed below may request to obtain additional information, a copy of the application

New NGC, Inc.
Charlotte, NC 28211

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(except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), all relevant supporting materials, and all other materials available to the EPC that are relevant to the permit decision. Interested persons may contact Diana M. Lee, P.E., at the above address or call (813) 627-2600, for additional information.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida rules of Appellate Procedure with the EPC's Legal Office at 3629 Queen Palm Dr., Tampa, Florida 33619 and with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tampa, Florida

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

Richard D. Garrity, Ph.D.
Executive Director

RDG/SRH/srh

Attachment

cc: Florida Department of Environmental Protection, Southwest District (via email)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on _____ to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the clerk, receipt of which is hereby acknowledged.

Clerk

Date

PERMITTEE:
New NGC, Inc.
2001 Rexford Road
Charlotte, NC 28211

PERMIT/CERTIFICATION
Permit No.: 0571242-011-AO
County: Hillsborough
Expiration Date: March 6, 2018
Project: Wallboard Manufacturing

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 62-204, 62-210, 62-212, 62-296, 62-297, and 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the EPC and made a part of hereof and specifically described as follows:

New NGC, Inc. is a gypsum wallboard manufacturing plant that utilizes a mixture of natural gypsum and synthetic gypsum that is produced in flue gas desulfurization scrubbers. New NGC, Inc. manufactures regular wallboard, XP wallboard containing silicone (polyhydrogenmethylsiloxane) as an additive, and EXP wallboard, which also contains the silicone additive and has a fiberglass mesh as a backing. By-product gypsum (BPG) and natural gypsum is delivered to the facility via truck. The trucks unload either into a hopper in a partially enclosed area next to the 45,000 ton storage dome or unload at the 100,000 ton outdoor gypsum storage pile area. The outdoor storage pile is used as an overflow storage area. When the gypsum stored in the outdoor storage pile is needed in the dome storage building, the gypsum is either loaded into a truck using a front-end loader and trucked to the dome truck unloading hopper or is directly transferred by a front-end loader to the dome truck unloading hopper.

From the hopper, material is gravity fed to a below grade conveyor belt. The material is conveyed to the top of the storage dome or sent directly to the Imp Mills using a series of fully enclosed conveyor belts. If the material is directed to the top of the dome, it falls through a hole at the top of the dome onto a storage pile. When needed in production, gypsum from the pile inside the dome is loaded onto the below grade conveyor belt using front end loaders and is sent to the Imp Mills using the same conveying system described above. All transfer points on the conveyor system are fully enclosed.

Gypsum, either from the dome or the truck unloading area, is sent to a gypsum/BPG silo inside the Imp Mill Building. Particulate matter emissions from the silo are controlled by a Flex Kleen, Model No. 30/36-PXBL-49, 3,200 DSCFM baghouse which vents outside of the building. From the silo, gypsum is gravity fed onto a conveyor belt and conveyed into one of four Impact (Imp) Mill feed bins and then into one of four 33 ton/hour Imp Mills. Each Imp Mill has a 30 MMBtu/hr burner to dry the gypsum and two 400 HP

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electric motor engines. The gypsum is dried, ground, and calcined in the Imp Mills to form calcium sulfate hemihydrate, also known as stucco. The stucco passes over a classifier where oversized material is returned to the Imp Mill. Each Imp Mill has an identical Flex Kleen, Model No. 20-WMC-540, 18,712 DSCFM baghouse to control particulate matter emissions. A screw conveyor, bucket elevator, and air slide system conveys properly sized material into one of two storage bins where the stucco is stored before being conveyed into the production building. The transfer of material to and from the storage bins is controlled by a Flex Kleen, Model No. 120-WRTC-128, 4,000 DSCFM baghouse. The Imp Mills run on natural gas and No. 2 fuel oil with a maximum sulfur content of 0.2% by weight as a backup. Also in the Imp Mill building are two ball mills where L.P. and starch are crushed to produce an accelerant that is added to the wallboard mixture. Starch is shipped to the facility in railcars and is pneumatically pumped into a 120 ton storage silo outside of the Imp Mill Building. Particulate matter emissions from the starch silo are controlled by a Flex Kleen, Model No. 58-BYBC-36, 800 DSCFM baghouse.

In the production building, paper is rolled out onto a conveyor belt designated as the board former and heated to form the bottom of the wallboard. Various additives, including stucco, L.P., starch, boric acid, potassium sulfate, silicone (polyhydrogenmethylsiloxane), fiberglass, and retardants, depending on the type of board produced, are conveyed to a mixer and mixed with water. Enclosed conveyors transport the mixture from the mixer to the board former. The mixture is spread onto the heated paper and the wallboard is conveyed to the end of the production building. As the material moves along the conveyor, a chemical reaction causes the material to harden, or set up. At this point the wallboard is considered “green”, or uncured, wallboard.

At the end of the conveyor belt, the wallboard is cut and conveyed into a 750 foot, four zone, 12 row kiln. The wallboard can be placed onto any of the twelve rows. The zones in the kiln are maintained at different temperatures. The temperature in Zones 1 and 2 is approximately 600°F, Zone 3 is approximately 450°F, and Zone 4 is approximately 350°F. To maintain the temperatures, Zones 1 and 2 each have one 60 MMBtu/hr burner, Zone 3 has one 30 MMBtu/hr burner, and Zone 4 has one 15 MMBtu/hr burner. Each zone has its own exhaust stack that could vent outdoors, but most exhaust from each zone is captured and sent to the next zone through an energy optimization system. The last zone, Zone 4, vents to the outdoors. The kiln is fired on natural gas and No. 2 fuel oil with a maximum sulfur content of 0.2% by weight as a backup fuel. Two 50,000 gallon storage tanks store the No. 2 fuel oil.

Finished wallboard from the kiln is conveyed to one of three Board End Trim Units (BET units). The BET units cut off ½” from each end of the wallboard. Each BET unit has an identical Flex Kleen, Model No. 30-PXL-84, 6,600 DSCFM baghouse to control particulate matter emissions. Using an automated system, paper is glued to the ends of the boards and the boards are stacked for storage.

Waste and reject wallboard is either sent to the waste wallboard crusher or is used as risers. The electric powered waste wallboard crusher operates inside the storage dome. The waste wallboard is wet when it is put in the crusher so there are little emissions associated with the crusher. The crushed up waste is mixed with the natural and synthetic gypsum in the storage pile and used in production. Risers (or spacers) are

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3”x 3” blocks of reject wallboard that are cut, glued together, and then placed in between the layers of the finished wallboard that are stacked for storage. The PM emissions that are caused by cutting the waste wallboard for risers are vented back to the Imp Mills.

If the finished wallboard is to be shipped via railcar, it is wrapped with a shrink wrap type plastic prior to being loaded onto railcars. The shrink wrap machine is an EDL Wrapper, Model No. 40568, with a 1.0 MMBtu/hr thermal input rate. The shrink wrap machine qualifies as an exempt emissions unit in accordance with Rule 62-210.300(3)(b)(1), F.A.C., Generic Emissions Unit or Activity Exemption, because it has the potential to emit less than 5 tons per year of any regulated pollutant as long as the number of railcars shipped out of the facility remain below 2,930.

Several activities, which are sources of particulate matter, vent inside the manufacturing building. These activities are also exempt from permitting pursuant to Rule 62-210.300(3)(b)1., F.A.C., because they vent inside the building and the PM emissions for these sources are estimated to be less than 1 tpy. These sources include the following activities:

Four Imp Mill Feed Bins	Starch Receiving Bin (Wet End)
Potash Receiving Bin (Raw Materials)	Vermiculite 54 Receiving Bin (Wet End)
Potash Receiving Bin (Wet End)	Vermiculite 54 Surge Bin (Raw Materials)
Potash Receiving Bin (Pulper)	L.P. Storage Bin A
Two Stucco Storage Bins	L.P. Storage Bin B
Stucco Handling (Imp Mill)	L.P. Silo (Imp Mill)
Starch Receiving Bin (Pulper)	Ball Mill A (Imp Mill)
Starch Storage Bin A (Imp Mill)	Ball Mill B (Imp Mill)
Starch Storage Bin B (Imp Mill)	BMA Receiving Bin (Wet End)
BMA Receiving Bin (Imp Mill)	Stucco Screw Conveyor above Pin Mixer (Wet End)

The four Imp Mills, the gypsum rock/BPG silo, the waste wallboard crusher, the gypsum handling and storage, the raw material conveyor system, and the Imp Mill building are subject to 40 CFR 60, Subpart 000 (Nonmetallic Minerals Processing Plants). However, the opacity standard in Rules 62-296.711 - Materials Handling, Sizing, Screening, Crushing and Grinding Operations and 62-296.712 - Miscellaneous Manufacturing Process Operations, F.A.C., are more stringent than the opacity standards in 40 CFR 60 Subpart 000. In addition, the facility has accepted grain loading limits that are more stringent than 40 CFR 60 Subpart 000. The truck unloading receiving hopper is exempt from 40 CFR 60 Subpart 000 per 40 CFR 60.672(d). The facility is subject to the PM RACT requirements of Rules 62-296.711 and 62-296.712, F.A.C., and Chapter 1-3.52, Rules of the EPC, which limits the visible emissions to a 5% opacity standard.

Particulate matter (PM) emissions from the material handling are controlled through the use of enclosures and baghouses. Emissions from the combustion of natural gas and fuel oil are limited through restrictions

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on the gas and fuel usage. The SO₂ and VOC emissions are generated from the combustion of natural gas and fuel oil, and from the volatilization of the mixture additives in the kiln. In addition hazardous air pollutants (HAPs), including formaldehyde and methanol, are emitted as a result of volatilization due to the high temperatures in the kiln.

Also at the facility are two (2) existing emergency Compression Ignition Internal Combustion Engine (CI ICE) generators. One generator can power the dry end of the plant in the event of a loss of electrical power. The other generator can power the wet end of the plant. Both of these emergency generators are categorically exempt from air permitting pursuant to Rule 62-210.300(3)(a)35., F.A.C., however, the engines are subject to 40 CFR 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The main requirements from this rule are operation and maintenance practices. The compliance date for this rule is May 3, 2013.

Location: 12949 US Highway 41 South, Gibsonton, FL 33534

UTM: 17-364.7 E and 3075.6 N NEDS NO: 1242

Emission Unit Nos.:

- 001 Imp Mill No. 1
- 002 Imp Mill No. 2
- 003 Imp Mill No. 3
- 004 Imp Mill No. 4
- 005 Kiln
- 006 Stucco Handling
- 007 Gypsum Rock / BPG Silo
- 008 Board End Trim Unit No. 1
- 009 Board End Trim Units No. 2 and 3
- 010 Starch Silo
- 011 Gypsum Storage and Handling
- 012 Waste Wallboard Crusher
- 014 Raw Material Transfer System
- 015 Imp Mill Building
- 016 Outdoor Gypsum Storage Pile Area

References Permit Nos.: 0571242-001-AC, -003-AC, -007-AC, -008-AC, and -009-AC

Replaces Permit No.: 0571242-010-AO

PERMITTEE:
New NGC, Inc.

PERMIT/CERTIFICATION No.: 0571242-010-AO
PROJECT: Wallboard Manufacturing

SPECIFIC CONDITIONS:

1. A part of this permit is the attached General Conditions. [Rule 62-4.160, F.A.C.]
2. All applicable rules of the Environmental Protection Commission of Hillsborough County including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction. [Rule 62-4.070(7), F.A.C.]
3. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C., or any other requirements under federal, state, or local law. [Rule 62-210.300, F.A.C.]
4. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]
5. As requested by the permittee, in order to limit the potential to emit, the permittee shall operate so that the allowable and potential emissions and the opacity listed in the table below are not exceeded. [Rules 62-296.711(2)(a) and (b), 62-296.712(2), 62-204.800, and 62-4.070(3), F.A.C. and Permit Nos. 0571242-007-AC, -008-AC, and -009-AC]

E.U. No.	Description	gr/dscf	PM (tpy)	SO₂ (tpy)	Opacity (%)
001	Imp Mill No. 1	0.010	7.0	10.6	5
002	Imp Mill No. 2	0.010	7.0	10.6	5
003	Imp Mill No. 3	0.010	7.0	10.6	5
004	Imp Mill No. 4	0.010	7.0	10.6	5
005	Kiln	0.005	24.4	41.4	5
006	Stucco Handling	0.020	5.0	--	5
007	Gypsum Rock/BPG Silo	0.020	2.4	--	5
008	BET Unit No. 1 (Riser Maker)	0.010	2.5	--	5
009	BET Unit Nos. 2 and 3	0.010	5.0	--	5

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SPECIFIC CONDITIONS:

E.U. No.	Description	gr/dscf	PM (tpy)	SO ₂ (tpy)	Opacity (%)
010	Starch Silo	0.020	0.6	--	5
011	Gypsum Handling & Storage	--	2.5	--	5
012	Waste Wallboard Crusher	--	3.5	--	5
014	Raw Material Conveyor System	--	2.5	--	5
015	Imp Mill Building	--	--	--	0
016	Outdoor Gypsum Storage Pile Area	--	3.0	--	5
N/A	Exempt EU's	--	0.6	0.1	--
Total		--	80.1	83.7	--

6. The permittee shall not cause, permit, or allow any visible emissions greater than five (5) percent opacity from any handling activity associated with the outdoor gypsum storage pile, including but not limited to the activities listed below: [Rule 62-296.711(2)(a), F.A.C., Ch. 1-3.52 of the Rules of EPCHC, and Permit No. 0571242-009-AC]

- A) Truck Unloading
- B) Front End Loaders
- C) Truck Loading

7. Hazardous Air Pollutant (HAP), as defined in Rule 62-210.200 F.A.C., emissions shall be less than 10 tons in any twelve consecutive month period for any individual HAP and less than 25 tons in any 12 consecutive month period for any combination of HAP's. [Rules 62-212.300, 62-210.200, and 62-4.070(3), F.A.C. and Permit No. 0571242-007-AC]

8. As requested by the permittee, in order to limit the potential to emit, the permittee shall not exceed the following material, fuel, and air flow rate limitations listed in the table below. [Rule 62-4.070(3), F.A.C. and Permit Nos. 0571242-007-AC, -008-AC, and -009-AC]

PERMITTEE:
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SPECIFIC CONDITIONS:

EU No.	Emission Unit	Material Input	Maximum ACFM	Maximum DSCFM	Thermal Input (MMBtu/hr)
001	Imp Mill No. 1	33 tons/hour	38,400	18,712	30
002	Imp Mill No. 2	33 tons/hour	38,400	18,712	30
003	Imp Mill No. 3	33 tons/hour	38,400	18,712	30
004	Imp Mill No. 4	33 tons/hour	38,400	18,712	30
005	Kiln	NA	186,000	130,000	165
006	Stucco Handling	120 tons/hour	6,600	6,600	--
007	Gypsum Rock/BPG Silo	350 tons/hour	3,200	3,200	--
008	BET Unit No. 1	900 Risers/hr	6,600	6,600	--
009	BET Unit Nos. 2 and 3	4.5 tons/hour	6,600	6,600	--
010	Starch Silo	100 tons/hour	800	800	--
011	Gypsum Handling & Storage	800,000 tons/year	--	--	--
012	Waste Board Crusher	76,000 tons/year	--	--	--
014	Raw Material Transfer System	876,000 tons/year	--	--	--
015	Imp Mill Building	NA	--	--	--
016	Outdoor Gypsum Storage Pile Area	300 tons/hour and 100,000 tons/year			
N/A	No. 2 Fuel Oil	5,518,250 gal/yr	--	--	--

9. In order to limit the potential to emit for PM, VOC, and HAP to less than Title V thresholds, the following limitations and restrictions shall apply per any twelve consecutive month period: [Rules 62-4.070(3) and 62-210.200 – Definitions, Potential to Emit, F.A.C. and Permit Nos. 0571242-007-AC, -008-AC, and -009-AC]

- A) The maximum combined amount of byproduct gypsum and natural gypsum received and processed at the facility shall not exceed 876,000 tons.
- B) Of the 876,000 tons of byproduct gypsum and natural gypsum received by the facility, no more than 100,000 tons shall be stored in the outdoor gypsum storage pile.
- C) The maximum finished board production rate shall not exceed 876,000 tons of board.

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SPECIFIC CONDITIONS:

- D) Of the 876,000 tons of board produced, no more than 70,000 tons shall be EXP board and no more than 160,000 tons shall be XP board.
- E) The maximum truck unloading rate to the outdoor gypsum storage pile shall not exceed 300 tons/hour.
- F) The maximum truck loading rate from the outdoor gypsum storage pile shall not exceed 300 tons/hour.
- G) The permittee shall maintain a permanent water spray system that is capable of reaching the top of the outdoor gypsum storage pile to adequately wet the material as needed to comply with the opacity standard specified in Specific Condition Nos. 5 and 6.
- H) Perform and document monthly maintenance inspections of the outdoor gypsum storage pile water spray system.
- I) Minimize the pile height of the outdoor gypsum storage pile as needed.

10. In order to limit the potential to emit, the following limitations shall not be exceeded: [Rules 62-4.070(3) and 62-210.200 – Definitions, Potential to Emit, F.A.C. and Permit No. 0571242-007-AC]

- A) Each Imp Mill shall not be operated for more than 3,000 hours during any 12 consecutive month period while firing No. 2 fuel oil.
- B) Each Imp Mill shall not use more than 656,934 gallons of No. 2 fuel oil during any 12 consecutive month period.
- C) The Kiln shall not be operated for more than 2,400 hours during any 12 consecutive month period while firing No. 2 fuel oil.
- D) The Kiln shall not use more than 2,890,511 gallons of No. 2 fuel oil during any 12 consecutive month period.
- E) The Imp Mills and Kiln are each authorized to operate 8,760 hours during any 12 consecutive month period while firing natural gas.
- F) The shrink wrap machine shall not be operated more than 4,395 hrs per year. The hours of operation shall be calculated by multiplying the number of railcars loaded by 1.5 hours/railcar.
- G) All other emission units not listed above are authorized to operate 8,760 during any 12 consecutive month period.

11. Only No. 2 fuel oil, with sulfur content not to exceed 0.2% by weight, shall be used as backup fuel. [Rules 62-4.070(3) and 62-210.200 – Definitions, Potential to Emit, F.A.C. and Permit No. 0571242-001-AC]

12. New NGC, Inc. shall test the following emission units once per federal fiscal year (October 1 through September 30) for the pollutants indicated below, and submit 2 copies of the test data to the Air Compliance Section of the Environmental Protection Commission of Hillsborough County within 45 days of such testing. Test procedures shall be consistent with the requirements of 40 CFR 60 and Rule 62-297, F.A.C. For the Imp Mills, the annual testing shall be completed on one single Imp Mill each year in

PERMITTEE:
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SPECIFIC CONDITIONS:

one of the scenarios in A) and B) below that is representative of the previous 12-months for the Imp Mill: [Rules 62-297.310(4) and (7) and 62-4.070(3), F.A.C. and Permit Nos. 0571242-007-AC and -008-AC]

- A) A blend of natural gypsum and by-product gypsum that represents normal plant operation while firing natural gas
- B) A blend of natural gypsum and by-product gypsum that represents normal plant operation while firing fuel oil
- C)

E.U. No.	Emission Unit Description	Opacity	PM
001	Imp Mill No. 1	X	X ¹
002	Imp Mill No. 2	X	
003	Imp Mill No. 3	X	
004	Imp Mill No. 4	X	
005	Kiln	X	X ²
006	Stucco Handling	X	--
007	Gypsum Rock/BPG Silo	X	--
008	BET Unit No. 1	X	--
009	BET Unit Nos. 2 and 3	X	--
010	Starch Silo	X	--
011	Gypsum Handling and Storage	X	--
012	Waste Wallboard Crusher	X	--
014	Raw Material Transfer System	X	--
015	Imp Mill Building	X	--
016	Outdoor Gypsum Storage Pile Area	X ³	

¹Test a Single Imp Mill per year in accordance with Specific Condition No. 13. below

² Kiln to be tested once every five years for particulate matter, prior to permit renewal

³ Test Emission Unit No. 016 in accordance with Specific Condition No. 14., below

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- D) The duration of the Method 9 visible emissions test for the above emission units shall be 30 minutes except for the emission units subject to 40 CFR 60 Subpart OOO. Testing shall be performed in accordance with 40 CFR 60 Subpart OOO for the emission units subject to this subpart.
- E) A minimum 12-minute Method 9 observation is required for any dust collector, in operation on a daily basis, with a pressure differential reading greater than 6 inches water, to confirm compliance with the visible emission standard.

13. The permittee shall test each Imp Mill as required in Specific Condition No. 12. so that each Imp Mill is tested at least once during a five year cycle. The following additional requirements are set forth for the Imp Mills test: [Rules 62-297.310(5)(a) and (b), 62-297.310(7), and 62-4.070(3), F.A.C. and Permit No. 0571242-007-AC]

- A) Each year, the date of the compliance test will be set by facility personnel, but it should be performed ± 30 days from the last anniversary test date.
- B) Notification of the scheduled date shall be provided at least 30 days in advance.
- C) The test shall be conducted and submitted in accordance with Specific Condition No. 12.
- D) One Imp Mill should be tested with a blend of natural gypsum and by-product gypsum while firing fuel oil, at least once in the five year permit cycle.
- E) The duration of the EPA Method 9 tests shall be at least 30 minutes and shall be conducted concurrently with the Method 5 test.

14. Test the truck unloading to the outdoor gypsum storage pile operation and the truck loading from the outdoor gypsum storage pile operation for visible emissions at the point of highest opacity once per federal fiscal year (October 1 – September 30). Submit two copies of the test results to the Environmental Protection Commission of Hillsborough County within 45 days of testing. The visible emission tests shall be conducted in accordance with Rule 62-297.310, F.A.C. [Rules 62-297.310(4)(a)2.a. and (7), F.A.C.]

15. For the gypsum handling and storage (EU No. 011), the visible emissions testing shall be completed while unloading natural gypsum or BPG and while transferring material via the conveyor system (loading the hopper). A separate visible emissions observation (test) shall be conducted for each opening that is open during the normal transfer of materials within the dome. [Rule 62-4.070(3), F.A.C. and Permit No. 0571242-003-AC]

16. The EPA Method 9 test for the raw material conveying system (EU No. 014) shall use the procedures in 40 CFR 60.11 with the following conditions: [40 CFR 60.675(c)(1), Rule 62-4.070(3), F.A.C., and Permit No. 0571242-007-AC]

- A) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

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- B) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (*e.g.*, road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- C) 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.

17. For the Kiln (EU No. 005), the duration of the EPA Method 9 tests shall be at least 30 minutes and shall be conducted concurrently with the Method 5 test, if a Method 5 test is required. [Rules 62-4.070(3) and 62-297.310(7), F.A.C.]

18. For the Imp Mill building, the duration of the EPA Method 22 tests shall be at least 75 minutes, with each side of the building and the roof being observed for at least 15 minutes. The performance test shall be conducted while all affected facilities inside the building are operating. [Rule 62-4.070(3), F.A.C. and 40 CFR 60.675(b)(2) and (d)]

19. For the Waste Wallboard Crusher (EU 012), the duration of the EPA Method 9 test may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply: [Rule 62-4.070(3), F.A.C. and 40 CFR 60.675(4)]

- A) There are no individual readings greater than 15 percent opacity; and
- B) There are no more than 3 readings of 15 percent for the 1-hour period

20. Testing of emissions shall be conducted with each source operating at capacity. Capacity is defined as 90-100% of the rated capacity listed in Specific Condition No. 8. For the Imp Mills, capacity is defined as 33 tons/hour. For the Imp Mill building, the performance test shall be conducted while all affected facilities inside the building are operating at capacity. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the material input rates and actual operating conditions, such as pressure drop across the baghouse, thermal input rates, and material throughput rates may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

21. Compliance with the emission limitations of Specific Condition Nos. 5 and 6 shall be determined using EPA Methods 1, 2, 4, 5, 6C, 7E, 9, 10, or 22 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. During the Method 6C test, the permittee shall perform an interference check in accordance with 40 CFR 60 Appendix A. The minimum requirements for stack sampling

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facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rules 62-4.070(3) and 62-297.310(7), F.A.C.]

22. Compliance with Specific Condition No. 11 shall be demonstrated by either of the following: [Rules 62-297.440 and 62-4.070(3), F.A.C.]

- A) A Certificate of Fuel Oil Analysis* from a fuel oil vendor of each shipment of fuel oil received.
- B) Certificate of Fuel Oil Analysis* for a fuel oil sample taken by the permittee from each shipment of fuel oil received.

*According to the most current version of ASTM Method D-396 or D-4294.

23. The permittee shall notify the Air Compliance Section of the Environmental Protection Commission of Hillsborough County at least 30 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating and having such test conducted. [40 CFR 60.8(d) and Rule 62-297.310(7)(a)9., F.A.C.]

24. The permittee shall file a report with the Environmental Protection Commission of Hillsborough County on the results of each compliance test as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Environmental Protection Commission of Hillsborough County to determine if the test was properly conducted. [Rule 62-297.310(8), F.A.C.]

25. The permittee shall provide at least the minimum requirements for stack sampling facilities as specified in 40 CFR 60.8(e)(1), (2), (3) and (4) and Rule 62-297.310(6), F.A.C. Source sampling platforms, platform access, and other associated work areas, whether permanent or temporary, shall be in accordance with Occupational Safety and Health Administration standards per 29 CFR 1910, Subparts D and E. [Rule 62-4.070(3), F.A.C.]

26. In order to demonstrate compliance with the limits established in Specific Condition Nos. 8, 9, 10, and 11 the permittee shall maintain a daily recordkeeping system for the most recent three year period. The records shall be maintained onsite and shall be made available to the Environmental Protection Commission of Hillsborough County, state or federal agency upon request. [Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C. and Permit Nos. 0571242-007-AC, -008-AC, and -009-AC]

- A) Day, Month
- B) Monthly total amount of gypsum (natural and by-product gypsum) received at the facility (tons)
- C) Monthly total amount of gypsum (natural and by-product gypsum) received and stored in the

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outdoor gypsum storage pile area (tons)

- D) Monthly total amount of gypsum (natural and by-product gypsum) processed (dry tons)
- E) Monthly total amount of natural gas used (in thousand cubic feet)
- F) Monthly amount of fuel oil used for each Imp Mill and Kiln (Emission Unit Nos. 001 through 005) (gallons)
- G) Hours of operation for each Imp Mill and Kiln (Emission Unit Nos. 001 through 005)
- H) Individual monthly material throughput for each emission unit, except EU Nos. 013 and 015
- I) Monthly total amount of XP boards produced
- J) Monthly total amount of EXP boards produced
- K) Monthly total amount of Regular boards produced
- L) Number of railcars shipped offsite.
- M) Rolling 12 consecutive month totals of B) through L) above.
- N) Fuel sulfur analyses as required in Specific Condition No. 22.
- O) Records of daily road maintenance as required in Specific Condition No. 31.E)
- P) Records of the monthly inspections and any maintenance performed on the sprinklers and sprinkler system for the raw material conveyors as required in Specific Condition No. 28.
- Q) Records of the inspections and any maintenance work performed on the outdoor gypsum storage pile water spray system as required in Specific Condition No. 9.H).
- R) Inspection records as required in the Operation and Maintenance Plan for Particulate Control in Appendix A and Specific Condition No. 29.

27. The permittee shall operate and maintain a measuring device to determine the air pressure differential across each baghouse and the clean air supply pressure to the baghouse within 10 percent accuracy. [Rule 62-297.310(5)(b), F.A.C. and Permit No. 0571242-007-AC]

28. The permittee shall operate as necessary a dedicated sprinkler system on the raw material conveyor system transfer points. The sprinklers shall be in use as necessary to ensure compliance with the visible emissions limits while material is being transferred using the conveyor system. Monthly inspections of the sprinkler system shall be performed and documented. [Rule 62-4.070(3), F.A.C.]

29. The Operation and Maintenance Plan in Appendix A is an enforceable document that is part of this permit. [Rules 62-296.700(6) and 62-4.070(3), F.A.C.]

30. The permittee shall comply with the following requirements: [Rule 62-204.800, F.A.C.]

- A) The permittee shall furnish the EPC written notification as follows:

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

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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 EPC may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]

- B) Any owner or operator subject to the provisions of this part shall 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. [40 CFR 60.7(b)]
- C) Any owner or operator subject to the provisions of this part shall maintain a file of all measurements, including monitoring device, and performance testing measurements; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records. [40 CFR 60.7(f)]
- D) Compliance with opacity standards in this part shall be determined by conducting observations in accordance with EPA Reference Method 9 in Appendix A (40 CFR 60). [40 CFR 60.11(b)]
- E) The opacity standards set forth in this permit shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. [40 CFR 60.11(c)]
- F) 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. 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 operating and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]
- G) No owner or operator subject to the provisions of this part 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. [40 CFR 60.12]

31. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related

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activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but not be limited to, the following: [Rule 62-296.320(4)(c), F.A.C. and Permit Nos. 0571242-007-AC and -009-AC]

- A) All by-product gypsum and natural gypsum shall be adequately wetted as necessary during transporting, unloading, storage, and handling to ensure compliance with the opacity standards.
- B) A dedicated water spray system shall be available at all times during material transfer/handling to wet the by-product and natural gypsum as necessary.
- C) Particulate matter shall be removed from the facility roadways with a wet vacuum or other equivalent suitable means, as necessary, to control re-entrainment particulate matter due to vehicular traffic.
- D) A truck tire wash shall be used to minimize the tracking of particulate matter onto facility and public roadways.
- E) Landscaping or planting of vegetation.
- F) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities as needed.

32. When the Environmental Protection Commission of Hillsborough County (EPC) after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in Rules 62-204, 62-210, 62-212, 62-296, or 62-297, F.A.C., or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of pollutant emissions from the source and to provide a report on the results of said tests to the EPC. [Rules 62-297.310(7)(b) and 62-4.070(3), F.A.C.]

33. The permittee shall provide timely notification to the Environmental Protection Commission of Hillsborough County prior to implementing any changes that may result in a modification to this permit pursuant to Rule 62-210.200(199), F.A.C., Modification. The changes do not include normal maintenance, but may include, and are not limited to, the following, and may also require prior authorization before implementation: [Rules 62-210.300 and 62-4.070(3), F.A.C.]

- A) Alteration or replacement of any equipment or major component of such equipment.
- B) Installation or addition of any equipment which is a source of air pollution.
- C) The use of any materials that may cause an increase in potential emissions.

34. Submit to the Environmental Protection Commission of Hillsborough County each calendar year on or before April 1, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", for the preceding calendar year. [Rule 62-210.370(3), F.A.C.]

35. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Air

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Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]

36. Prior to sixty days before the expiration of this operating permit, the permittee shall apply for a renewal of the permit using the current version of the permit renewal application form along with the proper fee. A renewal application shall be timely and sufficient. If the application is submitted prior to sixty days before the expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the EPC or, if there is court review of the final agency action, until a later date is required by Section 120.60, Florida Statutes. [Rule 62-4.090, F.A.C.]

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

Richard D. Garrity, Ph.D.
Executive Director

APPENDIX A

**Operation and Maintenance Plan
for Particulate Control**

**New NGC, Inc.
d/b/a/ National Gypsum Company
Apollo Beach Facility**

A) Process Parameters:

Emission Unit Nos. 001 – 004

1. Source Designators: Imp Mills 1 – 4 (each with its own identical baghouse)
2. Baghouse Manufacturer: Flex Kleen
3. Model Name and Number: 20-WMC-540
4. Design Flow Rate: 38,400 ACFM
5. Efficiency Rating at Design Capacity: 99% +
6. Pressure Drop: 0-6 in. H₂O
7. Air to Cloth Ratio: 4.65 : 1
8. Bag Weave: Felt
9. Bag Material: Nomex
10. Bag Cleaning Conditions: Pulse Jet
11. Gas Flow Rate: 18,712 DSCFM
12. Gas Temperatures: inlet 350°F; outlet 350°F
13. Stack Height Above Ground: 98 ft.
14. Exit Diameter: 45"
15. Exit Velocity: 58 fps
16. Water Vapor Content: 26%
17. Process Controlled by Collection System: Imp Mills 1 –4 (each has it's own baghouse)
18. Material Handling Rate: 33 tons/hour
19. Operation Schedule: 24 hr/day, 7 days/wk, 52 wks/yr

Emission Unit No. 006

1. Source Designators: Stucco Handling (wet end)
2. Baghouse Manufacturer: Flex Kleen
3. Model Name and Number: 120-WRTC-128
4. Design Flow Rate: 6,600 ACFM
5. Efficiency Rating at Design Capacity: 99% +
6. Pressure Drop: 0-6 in. H₂O
7. Air to Cloth Ratio: 3.37 : 1
8. Bag Weave: Felt
9. Bag Material: Nomex
10. Bag Cleaning Conditions: Pulse Jet
11. Gas Flow Rate: 4000 DSCFM
12. Gas Temperatures: inlet 200°F; outlet 200°F
13. Stack Height Above Ground: 50 ft.
14. Exit Diameter: 20"
15. Exit Velocity: 50 fps
16. Water Vapor Content: 25%
17. Process Controlled by Collection System: Stucco Handling (wet end)
18. Material Handling Rate: 120 tons/hour
19. Operation Schedule: 24 hr/day, 7 days/wk, 52 wks/yr

Emission Unit No. 007

1. Source Designators: Gypsum Rock/BPG Silo
2. Baghouse Manufacturer: Flex Kleen
3. Model Name and Number: 30/36-PXBL-49
4. Design Flow Rate: 3,200 DSCFM
5. Efficiency Rating at Design Capacity: 99% +
6. Pressure Drop: 0-6 in. H₂O
7. Air to Cloth Ratio: 2.18 : 1
8. Bag Weave: Felt
9. Bag Material: Poly-fiber
10. Bag Cleaning Conditions: Pulse Jet
11. Gas Flow Rate: 3,200 DSCFM
12. Gas Temperatures: inlet - ambient ; outlet - ambient
13. Stack Height above Ground: 79 ft.
14. Exit Diameter: 12"
15. Exit Velocity: 68 fps
16. Water Vapor Content: 0%
17. Process Controlled by Collection System: Gypsum Rock/BPG Silo
18. Material Handling Rate: 350 tons/hour
19. Operation Schedule: 24 hr/day, 7 days/wk, 52 wks/yr

Emission Unit No. 008

1. Source Designators: BET No. 1
2. Baghouse Manufacturer: Flex Kleen
3. Model Name and Number: 30-PXL-84
4. Design Flow Rate: 6,600 ACFM
5. Efficiency Rating at Design Capacity: 99% +
6. Pressure Drop: 0-6 in. H₂O
7. Air to Cloth Ratio: 1.39 : 1
8. Bag Weave: Spun Bond
9. Bag Material: Polyethylene
10. Bag Cleaning Conditions: Pulse Jet
11. Gas Flow Rate: 6,600 DSCFM
12. Gas Temperatures: inlet - ambient ; outlet - ambient
13. Stack Height Above Ground: 58.5 ft.
14. Exit Diameter: 24"
15. Exit Velocity: 9.4 fps
16. Water Vapor Content: 0%
17. Process Controlled by Collection System: BET No. 1
18. Material Handling Rate: 900 Riser per hour
19. Operation Schedule: 24 hr/day, 7 days/wk, 52 wks/yr

Emission Unit No. 009

1. Source Designators: BET Nos. 2 and 3
2. Baghouse Manufacturer: Flex Kleen
3. Model Name and Number: 30-PXTL-84
4. Design Flow Rate: 6,600 ACFM
5. Efficiency Rating at Design Capacity: 99% +
6. Pressure Drop: 0-6 in. H₂O
7. Air to Cloth Ratio: 2.78 : 1
8. Bag Weave: Spun Bond
9. Bag Material: Polyethylene
10. Bag Cleaning Conditions: Pulse Jet
11. Gas Flow Rate: 6,600 DSCFM
12. Gas Temperatures: inlet - ambient; outlet - ambient
13. Stack Height Above Ground: 58.5 ft.
14. Exit Diameter: 24"
15. Exit Velocity: 28 fps
16. Water Vapor Content: 0%
17. Process Controlled by Collection System: BET Nos. 2 and 3
18. Material Handling Rate: 4.5 tons/hour
19. Operation Schedule: 24 hr/day, 7 days/wk, 52 wks/yr

Emission Unit No. 010

1. Source Designators: Starch Silo
2. Baghouse Manufacturer: Flex Kleen
3. Model Name and Number: 58-BYBC-36
4. Design Flow Rate: 800 ACFM
5. Efficiency Rating at Design Capacity: 99% +
6. Pressure Drop: 0-6 in. H₂O
7. Air to Cloth Ratio: 3.09 : 1
8. Bag Weave: Felt
9. Bag Material: Polyester
10. Bag Cleaning Conditions: Pulse Jet
11. Gas Flow Rate: 800 DSCFM
12. Gas Temperatures: inlet - ambient; outlet - ambient
13. Stack Height Above Ground: 73.4 ft.
14. Exit Diameter: 12"
15. Exit Velocity: 17 fps
16. Water Vapor Content: 0%
17. Process Controlled by Collection System: Starch Silo
18. Material Handling Rate: 100 tons/hour
19. Operation Schedule: 24 hr/day, 7 days/wk, 52 wks/yr

B) The following observations, checks and operations apply to Emission Unit Nos. 001 -004 and 006 – 010 and shall be conducted on the schedule specified for each emission unit listed above:

Daily (during the operation of the baghouses while material is being handled or processed)

1. Check pressure drop.
2. Observe stack (visual).
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
4. Note any unusual occurrence in the process being ventilated.
5. Check and record the pulse (compressed) air pressure.
6. Observe indicators on control panel.
7. Assure that dust is being removed from system.

Weekly

1. Inspect screw conveyor and air lock bearings for lubrication.
2. Check packing glands.
3. Operate all damper valves (isolation, by-pass, etc.).
4. Check bag cleaning sequence to see that all valves are opening and closing properly.
5. Check pressure drop indicating equipment for plugged lines.
6. Check compressed air lines, including line oilers and filters.

Monthly

1. Check cleaning mechanism moving parts.
2. Inspect fans for corrosion and material build-up.
3. Check all drive belts and chains for wear and tension.
4. Check all hoses and clamps.
5. Check accuracy of all indicating equipment.
6. Inspect housing for corrosion.
7. Spot check bag tension inside bag collectors.

Quarterly

1. Inspect baffle plate for wear.
2. Thoroughly inspect bags.
3. Check duct for dust build-up.
4. Observe damper valves for proper seating.
5. Check gaskets on all doors.
6. Inspect paint.
7. Check screw conveyor flighting.

Annually

1. Check all bolts.
2. Check welds.
3. Inspect hopper for wear.
4. Check airlock rotor for wear.

C) Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County, state, and federal agency upon request. [Rule 62-296.700(6)(e), F.A.C.]