



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: May 10, 2011

RE: Cimbar Performance Mine/ 129-30446-00023

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER-AM.dot12/3/07



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May 10, 2011

Brett Cline
Cimbar Performance Minerals MV, LLC
2700 Bluff Rd.
Mt. Vernon, IN 47620

Re: 129-30446-00023
Fifth Notice-Only Change to
M129-22660-00023

Dear Brett Cline:

Cimbar Performance Minerals MV, LLC, formerly Barrett's Minerals, Inc., was issued a Minor Source Operating Permit (MSOP) Renewal No. M129-22660-00023 on November 28, 2007, for a stationary talc, barite and calcium carbonate processing plant located at 2700 Bluff Rd., Mt. Vernon, IN 47620. On April 13, 2011, the Office of Air Quality (OAQ) received an application from the source relating to the construction and operation of a new air jet milling system, consisting of mills # 7 & 8. The potential emissions of regulated criteria pollutants and hazardous air pollutants from the new air jet milling system (AU), consisting of mills # 7 & 8, illustrated in Appendix A, are less than the ranges specified 326 IAC 2-6.1-6(g)(4) and 326 IAC 2-6.1-6(d)(10), respectively, and the new air jet milling system is of the same type and will comply with the same applicable requirements and permit terms and conditions as existing air mills AP, AU, AX, and # 5 & #6. The addition of the new air jet milling system will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 or 326 IAC 2-3, and the uncontrolled/unlimited potential to emit of the entire source will continue to be less than the threshold levels specified in 326 IAC 2-7. Therefore, the addition of the new air jet milling system, consisting of mills # 7 & 8, to the permit is considered a notice-only change pursuant to 326 IAC 2-6.1-6(d)(13).

"Integral Part of the Process" Determination

With this application, the Permittee has submitted the following information to justify why the baghouse (BK) should be considered an integral part of the new air jet milling system's talc processing operations:

The control equipment serves a primary purpose other than pollution control.

The primary purpose of baghouse (BK) is not to control air pollution. Baghouse (BK) is used to pneumatically collect and separate resized talc material from the new air jet milling system's talc processing operations. This equipment would have been installed even if the air quality regulation were not in place, because it is used as an air separator, specifically to collect product (i.e., the talc). The product being manufactured could not be produced without the operation of the baghouse.

IDEM, OAQ has evaluated the information submitted by the Permittee, and agrees that baghouse (BK) should be considered an integral part of the new air jet milling system, identified as BK. This determination is based on the fact that the unit is specifically used to collect and separate the product, talc, from the air stream, for packaging and sale. Therefore, the permitting level will be determined using the potential to emit after the baghouse (BK). Operating conditions in the proposed permit will specify that this baghouse (BK) shall operate at all times when the new air jet milling system is in operation.

This determination is similar to the initial determination made for the twin air mill (AU) baghouse, under MSOP SPR 129-17710-00023, issued on March 23, 2004, and re-evaluated under MSOP Renewal 129-22660-00023, issued November 28, 2007, and with MSOP NOC No. 129-29181-00023, issued June 8, 2010, for the twin air jet mills #5 and #6, BJ. Appendix A of this document shows the potential to emit, using the control device, as discussed, for the new twin air jet milling system, identified as BK.

The following requirements shall apply to this permit notice-only change:

New Source performance Standards (NSPS)

- (a) The twin air jet milling system, identified as BK, is subject to the requirements of New Source Performance Standard (NSPS) 40 CFR 60, Subpart OOO because this is a grinding mill and is considered an affected facility. Therefore, the requirements of 40 CFR 60 Subpart OOO apply.
- (b) There are no other New Source Performance Standards (NSPS) that apply to this unit.

National Emissions Standards for Hazardous Air Pollutant (NESHAP)

- (a) There are no National Emissions Standards for Hazardous Air Pollutant (NESHAP) that apply to this unit.

State Rules Applicability

- (a) 326 IAC 1-6-3 (Preventive Maintenance Plan)
A Preventive Maintenance Plan is required for this facility and its baghouse control device. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this rule.
- (b) 326 IAC 2-2 (PSD PM Minor Limits)
This source is located in Posey County and the potential to emit of each criteria pollutant is less than two hundred fifty (250) tons with the integral baghouse controls. In order to assure that the entire source is minor for PSD for determination is before control, the previous MSOP Renewal 129-22660-00023 incorporated hourly PM emission limits for each facility. This unit is subject to the more stringent requirements of NSPS Subpart OOO; therefore, the particulate limit was computed based on the limited grain loading coupled with the air flow and exhaust temperature, as shown in Appendix A of this document.

Pursuant to 326 IAC 2-2 the particulate emission from the twin air jet milling system, identified as BK, shall not exceed 0.123 lb/hr.

Pursuant to 326 IAC 2-2, the baghouse BK shall be in operation at all times that the twin air jet milling system, identified as BK, is in operation and shall operate within manufacturer's specifications.

- (c) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
This unit would be subject to the requirements of 326 IAC 6-3-2 because the potential to emit particulate from this unit is greater than 0.551 lb/hr. However, the unit is also subject to NSPS Subpart OOO (40 CFR 60, Subpart OOO, dated April 28, 2009), which has a more stringent particulate emissions limit for this unit. Therefore, the requirements of 326 IAC 6-3-2 do not apply. The NSPS limit is stated in grains per dry standard cubic foot, and that conversion to pounds per hour is shown in the calculations in Appendix A of this document.

Proposed Changes:

- (1) IDEM OAQ has decided to make a change to the existing permit to correct a typographical error.

Condition E.2.1 references NSPS Subpart OOO, and the correct reference should be NSPS Subpart UUU because Section E.2 describes the conditions for operating the unit under 40 CFR 60, Subpart UUU. Condition E.2.1 will be changed accordingly.

- (2) IDEM OAQ has decided to make a correction to the existing permit to correct the emissions limit for existing unit Twin Air Jet Mills #5 and #6, BJ, constructed in 2010. In MSOP NOC No. 129-29181-00023, the emission limit of 0.05 gr/dscf was applied to this unit, resulting in a limit of 0.439 lb/hr emissions limit, based on NSPS Subpart OOO, dated August 1, 1985. However, NSPS Subpart OOO was updated on April 29, 2009, and Table 2 of that subpart indicates a new emissions limit of 0.014 gr/dscf for units constructed after April 22, 2008. Therefore, since the unit BJ was constructed in 2010, the updated rule has been applied to existing unit BJ. The new limit changed from 0.439 lb/hr of particulate to 0.123 lb/hr of particulate. Recent stack tests conducted on August 10, 2010 on Unit BJ showed that, even with the new limits, the source is in compliance with Subpart OOO. Condition D.1.1 of the permit will be changed to show the new limit, as discussed above.

Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby revised as follows with the deleted language as ~~strikeouts~~ and new language **bolded**.

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

- (u) **One (1) twin air jet milling system, identified as BK, consisting of mills # 7 & 8, approved for construction in 2011, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BK, for product reclamation, and exhausting outside the building through Stack BK.**

Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: (continued)

- (u) **One (1) twin air jet milling system, identified as BK, consisting of mills # 7 & 8, approved for construction in 2011, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BK, for product reclamation, and exhausting outside the building through Stack BK.**

Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.

D.1.1 PSD PM Minor Limits [326 IAC 2-2]

Particulate matter (PM) from facilities listed in the following table shall not exceed the pound per hour emission rates:

Facility Description	Baghouse Identification	Limited PM Emission Rate (lbs/hr)
----------------------	-------------------------	-----------------------------------

Twin air jet milling system	BJ	0.123 0.439
Twin air jet milling system	BK	0.123

D.1.4 Particulate Control

- (a) In order to comply with Conditions D.1.1 and D.1.2, the baghouses, identified as B through Z, AA through AC, AG through AM, AO and AP, AS through AY, BA through BD and BF through ~~BJ~~**BK** for particulate control shall be in operation and control emissions from the talc, barite and calcium carbonate processing facilities at all times that these facilities are in operation.

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the talc, barite and calcium carbonate processing stack exhausts, identified as B through Z, AA through AC, AG through AM, AO and AP, AS through AY, BA through BD and BF through ~~BJ~~**BK**, shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

D.1.7 Baghouse Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouses, identified as B through Z, AA through AC, AG through AM, AY, BA through BD and BF through ~~BJ~~**BK**, used in conjunction with the talc, barite and calcium carbonate processing facilities at least once per day when these facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.6, the Permittee shall maintain a daily record of visible emission notations of the talc, barite and calcium carbonate processing baghouse stack exhausts, identified as B through Z, AA through AC, AG through AM, AO and AP, AS through AY, BA through BD and BF through ~~BJ~~**BK**. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the roller miller exhausted to Stack D did not operate that day).
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain a daily record of the pressure drop across the baghouses, identified as B through Z, AA through AC, AG through AM, AO and AP, AS through AY, BA through BD and BF through ~~BJ~~**BK**, controlling talc, barite and calcium carbonate processing facilities. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the roller miller did not operate that day).

SECTION E.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: (continued)

(u) One (1) twin air jet milling system, identified as BK, consisting of mills # 7 & 8, approved for construction in 2011, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BK, for product reclamation, and exhausting outside the building through Stack BK.

Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.

E.2.1 General Provisions Relating to NSPS Subpart OOO UUU [326 IAC 12] [40 CFR Part 60, Subpart A]

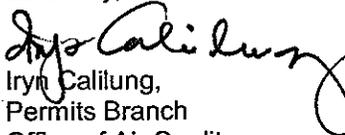
Pursuant to 40 CFR 60.736, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12 for the natural gas-fired dryer, as specified in 40 CFR Part 60, Subpart UUU in accordance with schedule in 40 CFR 60 Subpart UUU.

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Jack Harmon, of my staff, at 317-233-4228 or 1-800-451-6027, and ask for extension 3-4228.

Sincerely,


Iryn Calitung,
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Appendix A

IC/jh

cc: File - Posey County
Posey County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

Cimbar Performance Minerals MV, LLC
2700 Bluff Road
Mt. Vernon, Indiana 47620

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain an MSOP under 326 IAC 2-6.1.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

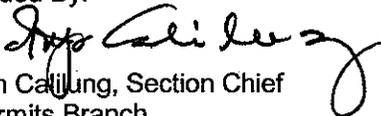
Operation Permit No.: MSOP 129-22660-00023	
Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: November 28, 2007 Expiration Date: November 28, 2017
First Notice-Only Change No.: 129-23559-00003, issued October 26, 2006 Second Notice-Only Change No.: 129-25772-00023, issued January 17, 2008 Third Notice-Only Change No.: 129-28690-00023, issued December 3, 2009 Fourth Notice-Only Change No.: 129-29181-00023, issued June 8, 2010	
Fifth Notice-Only Change No.: MSOP 129-30446-00023	
Issued By:  Iryn Callung, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 10, 2011 Expiration Date: November 28, 2017

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New Source Performance Standards (NSPS) Requirements [326 IAC 2-6]

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 and A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary talc, barite and calcium carbonate processing source.

Source Address:	2700 Bluff Road, Mt. Vernon, Indiana 47620
General Source Phone Number:	812- 838-8330
SIC Code:	3295
County Location:	Posey
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) grinding plant, installed in 1991, exhausted to Stacks A through K and M controlled by twelve (12) baghouses, identified as A through K and M, capacity: 14.0 tons of talc, barite or calcium carbonate per hour, consisting of the following:
- (1) One (1) electric crusher system, manufactured on September 14, 1960, capacity 50.0 tons of ore per hour.
 - (2) Two (2) silos, identified as North and South, connected pneumatically to baghouses, identified as B and C, exhausted to Stacks B and C, throughput capacity: 35.0 tons of ore per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (3) One (1) roller mill, manufactured in November 1928, connected pneumatically to a baghouse, identified as D, exhausted to Stack D, throughput capacity: 14.0 tons of nonmetallic minerals per hour.
 - (4) One (1) classifier #1, connected pneumatically to a baghouse, identified as E, exhausted to Stack E, throughput capacity: 10.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a screening operation and is an affected facility.
 - (5) Six (6) silos, identified as Red, Green, Blue, Yellow, Pink and Orange, connected pneumatically to baghouses, identified as F, G, H, I, J and K, exhausted to Stacks F, G, H, I, J and K, respectively, throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (6) One (1) impact mill, manufactured on September 10, 1962, connected pneumatically to a baghouse, identified as M, exhausted to Stack M, throughput capacity: 9.0 tons of nonmetallic minerals per hour.

- (b) Four (4) silos, identified as Silo #1, Silo #2, Silo #3 and Silo #4, installed in 1994, connected pneumatically to baghouses, identified as N, O, P and Q, exhausted to Stacks N, O, P and Q, respectively, capacity: 8,313 cubic feet, each, and throughput capacity: 14.0 tons of minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (c) Two (2) silos, identified as Silo #5 and Silo #6, installed in 1994, connected pneumatically to baghouses, identified as R and S, exhausted to Stacks R and S, capacity: 6,107 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (d) Five (5) silos, identified as Silo #7, Silo #8, Silo #9, Silo #10 and Silo #11, installed in 1994, connected pneumatically to baghouses, identified as T, U, V, W and X, exhausted to Stacks T, U, V, W and X, respectively, capacity: 11,083 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (e) One (1) hammer mill micronizer, identified as #1 Bepex, manufactured on December 10, 1974, installed in 1994, connected pneumatically to a baghouse, identified as Y, exhausted to Stack Y, capacity: 1.00 ton of nonmetallic minerals per hour.
- (f) One (1) ball mill micronizer, identified as Ball Mill, manufactured on January 25, 1950, connected pneumatically to a baghouse, identified as Z, exhausted to Stack Z, capacity: 7.5 tons of non metallic minerals per hour, two (2) silos, identified as Silo #12 connected pneumatically to a baghouse, identified as AA, throughput capacity: 14.0 tons of nonmetallic minerals per hour, and Silo #13, connected pneumatically to a baghouse, identified as AB, throughput capacity: 35.0 tons of ore per hour, exhausted to Stacks AA and AB, capacity: 6,688 cubic feet, each and one (1) classifier #3, installed in 1994, connected pneumatically to a baghouse, identified as AC, exhausted to Stack AC, capacity: 10.0 tons of minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, Silo #12 and #13 are storage bins and are affected facilities and the classifier #3 is a screening operation and is an affected facility.
- (g) One (1) pellet mill and natural gas-fired dryer, identified as Pellet Mill, installed in 1996, connected pneumatically to a baghouse, identified as AY, installed in 2006, exhausted to Stack AY, capacity: 8.0 tons of nonmetallic minerals per hour and rated at 6.0 million British thermal units per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility. Under NSPS, 40 CFR Part 60.730, Subpart UUU, the dryer is an affected facility.
- (h) Five (5) material storage silos, identified as Silo A, Silo B, Silo C, Silo D and Silo #14, exhausted to Stacks AG, AH, AI, AJ and AK, respectively, connected pneumatically to baghouses, identified as AG, AH, AI, AJ and AK, respectively, installed in 1997, capacity: 12,038 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Silos A, B, C and D are also connected pneumatically to a common baghouse, identified as AM for unloading/transfer purposes, throughput capacity: 14.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (i) One (1) Bepex/Air Mill Room, capacity: 2.0 tons of nonmetallic minerals per hour, consisting of:
 - (1) Three (3) silos, identified as Silo #15, Silo #16 and Silo #17, connected pneumatically to baghouses, identified as AO, AS and AT, exhausted to Stacks AO, AS and AT, throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.

- (2) One (1) single air mill (powder), connected pneumatically to a baghouse, identified as AP, exhausted to Stack AP, throughput capacity: 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (j) One (1) twin air mill, connected pneumatically to a baghouse, identified as AU, exhausted to Stack AU, installed in 2004, capacity: 2.0 tons of talc per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (k) One (1) air jet milling system, installed in 2005, capacity of 2.5 tons of nonmetallic minerals per hour, consisting of:
 - (1) Two (2) silos, identified as Silo #18 and Silo #19, connected pneumatically to baghouses, identified as AV, and AW, exhausted to Stacks AV and AW, capacity; 3,950 cubic feet, each and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (2) One (1) #3 air mill, connected pneumatically to a baghouse, identified as AX, exhausted to Stack AX, capacity 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (l) One (1) classifier #2, connected pneumatically to a baghouse, identified as BA installed in 1995, exhausted to Stack BA, capacity: 10.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a screening operation and is an affected facility.
- (m) One (1) Pellet Mill Transfer, connected pneumatically to a baghouse, identified as BB, installed in 1999, exhausted to Stack BB, capacity: 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a pneumatic system and is an affected facility.
- (n) One (1) product recycling bin, connected pneumatically to a baghouse, identified as BC, installed in 2001, exhausted to Stack BC, capacity: 5.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a storage bin and is an affected facility.
- (o) One (1) R1 bin, connected pneumatically to a baghouse, identified as BD, installed in 1994, exhausted to Stack BD, capacity: 25.0 tons of ore per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a storage bin and is an affected facility.
- (p) One (1) auto packaging machine operation, connected pneumatically to a baghouse, identified as BF, installed in 2002, exhausted to Stack BF, capacity: 8.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a bagging operation and is an affected facility.
- (q) One (1) cosmetic circuit receiver, connected pneumatically to a baghouse, identified as BG, installed in 1992, exhausted to Stack BG, capacity: 7.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a pneumatic system and is an affected facility.
- (r) One (1) bulk truck loadout operation, connected pneumatically to a baghouse, identified as BH, installed in 1996, exhausted to Stack BH, capacity: 16.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a loading station and is an affected facility.

- (s) One (1) bulk railcar loadout operation, connected pneumatically to a baghouse, identified as BI, installed in 1997, exhausted to Stack BI, capacity: 8.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a loading station and is an affected facility.
- (t) One (1) twin air jet milling system, identified as BJ, consisting of mills # 5 & 6, approved for construction in 2010, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BJ, for product reclamation, and exhausting outside the building through Stack BJ. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (u) One (1) twin air jet milling system, identified as BK, consisting of mills # 7 & 8, approved for construction in 2011, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BK, for product reclamation, and exhausting outside the building through Stack BK.

Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M129-22660-00023, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Severability

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M129-22660-00023 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and

- (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.15 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.18 Credible Evidence [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than one hundred (100) pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed five hundred fifty-one thousandths (0.551) pounds per hour.

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.10 Performance Testing [326 IAC 3-6]

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.11 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

C.12 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.13 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.14 Response to Excursions or Exceedances

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.16 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.17 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Entire Source

- (a) One (1) grinding plant, installed in 1991, exhausted to Stacks A through K and M controlled by twelve (12) baghouses, identified as A through K and M, capacity: 14.0 tons of talc, barite or calcium carbonate per hour, consisting of the following:
 - (1) One (1) electric crusher system, manufactured on September 14, 1960, capacity 50.0 tons of ore per hour.
 - (2) Two (2) silos, identified as North and South, connected pneumatically to baghouses, identified as B and C, exhausted to Stacks B and C, throughput capacity: 35.0 tons of ore per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (3) One (1) roller mill, manufactured in November 1928, connected pneumatically to a baghouse, identified as D, exhausted to Stack D, throughput capacity: 14.0 tons of nonmetallic minerals per hour.
 - (4) One (1) classifier #1, connected pneumatically to a baghouse, identified as E, exhausted to Stack E, throughput capacity: 10.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a screening operation and is an affected facility.
 - (5) Six (6) silos, identified as Red, Green, Blue, Yellow, Pink and Orange, connected pneumatically to baghouses, identified as F, G, H, I, J and K, exhausted to Stacks F, G, H, I, J and K, respectively, throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (6) One (1) impact mill, manufactured on September 10, 1962, connected pneumatically to a baghouse, identified as M, exhausted to Stack M, throughput capacity: 9.0 tons of non-metallic minerals per hour.
- (b) Four (4) silos, identified as Silo #1, Silo #2, Silo #3 and Silo #4, installed in 1994, connected pneumatically to baghouses, identified as N, O, P and Q, exhausted to Stacks N, O, P and Q, respectively, capacity: 8,313 cubic feet, each, and throughput capacity: 14.0 tons of minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (c) Two (2) silos, identified as Silo #5 and Silo #6, installed in 1994, connected pneumatically to baghouses, identified as R and S, exhausted to Stacks R and S, capacity: 6,107 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (d) Five (5) silos, identified as Silo #7, Silo #8, Silo #9, Silo #10 and Silo #11, installed in 1994, connected pneumatically to baghouses, identified as T, U, V, W and X, exhausted to Stacks T, U, V, W and X, respectively, capacity: 11,083 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (e) One (1) hammer mill micronizer, identified as #1 Bepex, manufactured on December 10, 1974, installed in 1994, connected pneumatically to a baghouse, identified as Y, exhausted to Stack Y, capacity: 1.00 ton of nonmetallic minerals per hour.

Emissions Unit Description: (continued)

- (f) One (1) ball mill micronizer, identified as Ball Mill, manufactured on January 25, 1950, connected pneumatically to a baghouse, identified as Z, exhausted to Stack Z, capacity: 7.5 tons of non metallic minerals per hour, two (2) silos, identified as Silo #12 connected pneumatically to a baghouse, identified as AA, throughput capacity: 14.0 tons of nonmetallic minerals per hour, and Silo #13, connected pneumatically to a baghouse, identified as AB, throughput capacity: 35.0 tons of ore per hour, exhausted to Stacks AA and AB, capacity: 6,688 cubic feet, each and one (1) classifier #3, installed in 1994, connected pneumatically to a baghouse, identified as AC, exhausted to Stack AC, capacity: 10.0 tons of minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, Silo #12 and #13 are storage bins and are affected facilities and the classifier #3 is a screening operation and is an affected facility.
- (g) One (1) pellet mill and natural gas-fired dryer, identified as Pellet Mill, installed in 1996, connected pneumatically to a baghouse, identified as AY, installed in 2006, exhausted to Stack AY, capacity: 8.0 tons of nonmetallic minerals per hour and rated at 6.0 million British thermal units per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility. Under NSPS, 40 CFR Part 60.730, Subpart UUU, the dryer is an affected facility.
- (h) Five (5) material storage silos, identified as Silo A, Silo B, Silo C, Silo D and Silo #14, exhausted to Stacks AG, AH, AI, AJ and AK, respectively, connected pneumatically to baghouses, identified as AG, AH, AI, AJ and AK, respectively, installed in 1997, capacity: 12,038 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Silos A, B, C and D are also connected pneumatically to a common baghouse, identified as AM for unloading/transfer purposes, throughput capacity: 14.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (i) One (1) Bepex/Air Mill Room, capacity: 2.0 tons of nonmetallic minerals per hour, consisting of:
 - (1) Three (3) silos, identified as Silo #15, Silo #16 and Silo #17, connected pneumatically to baghouses, identified as AO, AS and AT, exhausted to Stacks AO, AS and AT, throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (2) One (1) single air mill (powder), connected pneumatically to a baghouse, identified as AP, exhausted to Stack AP, throughput capacity: 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (j) One (1) twin air mill, connected pneumatically to a baghouse, identified as AU, exhausted to Stack AU, installed in 2004, capacity: 2.0 tons of talc per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (k) One (1) air jet milling system, installed in 2005, capacity of 2.5 tons of nonmetallic minerals per hour, consisting of:
 - (1) Two (2) silos, identified as Silo #18 and Silo #19, connected pneumatically to baghouses, identified as AV, and AW, exhausted to Stacks AV and AW, capacity; 3,950 cubic feet, each and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (2) One (1) #3 air mill, connected pneumatically to a baghouse, identified as AX, exhausted to Stack AX, capacity 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.

Emissions Unit Description: (continued)

- (l) One (1) classifier #2, connected pneumatically to a baghouse, identified as BA installed in 1995, exhausted to Stack BA, capacity: 10.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a screening operation and is an affected facility.
- (m) One (1) Pellet Mill Transfer, connected pneumatically to a baghouse, identified as BB, installed in 1999, exhausted to Stack BB, capacity: 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a pneumatic system and is an affected facility.
- (n) One (1) product recycling bin, connected pneumatically to a baghouse, identified as BC, installed in 2001, exhausted to Stack BC, capacity: 5.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a storage bin and is an affected facility.
- (o) One (1) R1 bin, connected pneumatically to a baghouse, identified as BD, installed in 1994, exhausted to Stack BD, capacity: 25.0 tons of ore per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a storage bin and is an affected facility.
- (p) One (1) auto packaging machine operation, connected pneumatically to a baghouse, identified as BF, installed in 2002, exhausted to Stack BF, capacity: 8.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a bagging operation and is an affected facility.
- (q) One (1) cosmetic circuit receiver, connected pneumatically to a baghouse, identified as BG, installed in 1992, exhausted to Stack BG, capacity: 7.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a pneumatic system and is an affected facility.
- (r) One (1) bulk truck loadout operation, connected pneumatically to a baghouse, identified as BH, installed in 1996, exhausted to Stack BH, capacity: 16.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a loading station and is an affected facility.
- (s) One (1) bulk railcar loadout operation, connected pneumatically to a baghouse, identified as BI, installed in 1997, exhausted to Stack BI, capacity: 8.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a loading station and is an affected facility.
- (t) One (1) twin air jet milling system, identified as BJ, consisting of mills # 5 & 6, approved for construction in 2010, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BJ, for product reclamation, and exhausting outside the building through Stack BJ. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (u) One (1) twin air jet milling system, identified as BK, consisting of mills # 7 & 8, approved for construction in 2011, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BK, for product reclamation, and exhausting outside the building through Stack BK.

Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards

D.1.1 PSD PM Minor Limits [326 IAC 2-2]

Particulate matter (PM) from facilities listed in the following table shall not exceed the pound per hour emission rates:

Facility Description	Baghouse Identification	Limited PM Emission Rate (lbs/hr)
Crusher System		2.53
North Silo	B	0.262
South Silo	C	0.262
Roller Mill	D	7.35
Classifier #1	E	0.235
Red Silo	F	0.227
Green Silo	G	0.227
Blue Silo	H	0.227
Yellow Silo	I	0.303
Pink Silo	J	0.303
Orange Silo	K	0.349
Impact Mill	M	7.35
#1 Silo	N	0.136
#2 Silo	O	0.136
#3 Silo	P	0.136
#4 Silo	Q	0.136
#5 Silo	R	0.227
#6 Silo	S	0.227
#7 Silo	T	0.227
#8 Silo	U	0.227
#9 Silo	V	0.227
#10 Silo	W	0.227
#11 Silo	X	0.227
#1 Bepex	Y	3.30
Ball Mill	Z	9.43
#12 Silo	AA	0.146
#13 Silo	AB	0.146
Classifier #3	AC	0.224
Silo A	AG	0.103
Silo B	AH	0.235
Silo C	AI	0.103
Silo D	AJ	0.103
Silo #14	AK	0.227
Common Baghouse	AM	0.103
Silo #15	AO	0.262
Single Air Mill (powder)	AP	0.560
Silo #16	AS	0.174
Silo #17	AT	0.174
Twin Air Mill	AU	0.776
Silo #18	AV	0.212
Silo #19	AW	0.212
#3 Air Mill	AX	0.371
Pellet Mill & Nat. Gas Dryer	AY	3.04
Classifier #2	BA	0.270
Pellet Mill Transfer	BB	0.119
Product Recycling Bin	BC	0.523
R1 Bin	BD	0.270

Auto Packaging Machine Op.	BF	0.523
Cosmetic Circuit Receiver	BG	0.274
Bulk Truck Loadout	BH	0.262
Bulk Railcar Loadout	BI	0.262
Twin Air Jet Mill	BJ	0.123
Twin Air Jet Mill	BK	0.123

Compliance with these PM limits and potential PM emissions from other emission units at this source shall limit PM emissions to less than two hundred fifty (250) tons per year and renders the entire source minor with respect to 326 IAC 2-2 (PSD).

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the:

- (a) crusher system shall not exceed 44.5 pounds per hour when operating at a process weight rate of 50.0 tons per hour,
- (b) roller mill shall not exceed 24.0 pounds per hour when operating at a process weight rate of 14.0 tons per hour,
- (c) impact mill shall not exceed 17.8 pounds per hour when operating at a process weight rate of 9.0 tons per hour,
- (d) #1 Bepex shall not exceed 4.1 pounds per hour when operating at a process weight rate of 1.0 ton per hour, and
- (e) ball mill shall not exceed 15.8 pounds per hour when operating at a process weight rate of 7.5 tons per hour.

The pounds per hour limitations were calculated with the following equations:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

and

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P_{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour.}$$

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for all facilities, except the crusher system, and their baghouse control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.4 Particulate Control

- (a) In order to comply with Conditions D.1.1 and D.1.2, the baghouses, identified as B through Z,

AA through AC, AG through AM, AO and AP, AS through AY, BA through BD and BF through BK for particulate control shall be in operation and control emissions from the talc, barite and calcium carbonate processing facilities at all times that these facilities are in operation.

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.1.5 Testing Requirements [326 IAC 2-1.1-11]

- (a) Not later than one hundred eighty (180) days of issuance of this MSOP Renewal, 129-22660-00023, in order to demonstrate compliance with Condition E.1.2, the Permittee shall perform PM testing of the following facilities:

- (1) classifier #1, connected pneumatically to a baghouse, identified as E, exhausted to Stack E,
- (2) one (1) of the six (6) silos, identified as Red, Green, Blue, Yellow, Pink and Orange, connected pneumatically to baghouses, identified as F, G, H, I, J and K, exhausted to Stacks F, G, H, I, J and K, respectively,
- (3) one (1) of the three (3) silos, identified as Silo #15, Silo #16 and Silo #17, connected pneumatically to baghouses, identified as AO, AS and AT, exhausted to Stacks AO, AS and AT,
- (4) classifier #2, connected pneumatically to a baghouse, identified as BA installed in 1995, exhausted to Stack BA,
- (5) Pellet Mill Transfer, connected pneumatically to a baghouse, identified as BB, exhausted to Stack BB,
- (6) product recycling bin, connected pneumatically to a baghouse, identified as BC, exhausted to Stack BC,
- (7) R1 bin, connected pneumatically to a baghouse, identified as BD, exhausted to Stack BD,
- (8) auto packaging machine operation, connected pneumatically to a baghouse, identified as BF, exhausted to Stack BF,
- (9) cosmetic circuit receiver, connected pneumatically to a baghouse, identified as BG, exhausted to Stack BG,
- (10) bulk truck loadout operation, connected pneumatically to a baghouse, identified as BH, exhausted to Stack BH,
- (11) bulk railcar loadout operation, connected pneumatically to a baghouse, identified as BI, exhausted to Stack BI,

utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

- (b) In order to demonstrate compliance with Condition E.1.2, no later than five (5) years from the most recent valid compliance demonstration, the Permittee shall perform PM and opacity testing of one (1) of the two (2) silos, identified as North and South, connected pneumatically to baghouses, identified as B and C, exhausted to Stacks B and C, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
- (c) In order to demonstrate compliance with Condition E.1.2, no later than five (5) years from the most recent valid compliance demonstration, the Permittee shall perform PM and opacity testing of one (1) of the eleven (11) silos, identified as Silos #1 through #11, connected pneumatically to baghouses, identified as N through X, exhausted to Stacks N through X, respectively, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
- (d) In order to demonstrate compliance with Conditions E.1.2 and E.2.2, no later than five (5) years from the most recent valid compliance demonstration, the Permittee shall perform PM and opacity testing of the pellet mill and natural gas-fired dryer, identified as Pellet Mill, connected pneumatically to a baghouse, identified as AY, exhausted to Stack AY, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
- (e) In order to demonstrate compliance with Condition E.1.2, no later than five (5) years from the most recent valid compliance demonstration, the Permittee shall perform PM and opacity testing of the classifier #3, connected pneumatically to a baghouse, identified as AC, exhausted to Stack AC, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the last most recent compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
- (f) In order to demonstrate compliance with Condition E.1.2, no later than five (5) years from the most recent valid compliance demonstration, the Permittee shall perform PM and opacity testing of either the single air mill (powder), connected pneumatically to a baghouse, identified as AP, exhausted to Stack AP, or the #3 air mill, connected pneumatically to a baghouse, identified as AX, exhausted to Stack AX, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.6 Visible Emissions Notations

- (a) Visible emission notations of the talc, barite and calcium carbonate processing stack exhausts, identified as B through Z, AA through AC, AG through AM, AO and AP, AS through AY, BA through BD and BF through BK, shall be performed once per day during normal day-

light operations. A trained employee shall record whether emissions are normal or abnormal.

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.7 Baghouse Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouses, identified as B through Z, AA through AC, AG through AM, AY, BA through BD and BF through BK, used in conjunction with the talc, barite and calcium carbonate processing facilities at least once per day when these facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.
- (b) The Permittee shall record the pressure drop across the baghouses, identified as AO, AP and AS through AX, used in conjunction with the talc, barite and calcium carbonate processing facilities at least once per day when these facilities are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.
- (c) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.8 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit.

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal

visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, or leaks.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.6, the Permittee shall maintain a daily record of visible emission notations of the talc, barite and calcium carbonate processing baghouse stack exhausts, identified as B through Z, AA through AC, AG through AM, AO and AP, AS through AY, BA through BD and BF through BK. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the roller miller exhausted to Stack D did not operate that day).
- (b) To document the compliance status with Condition D.1.7, the Permittee shall maintain a daily record of the pressure drop across the baghouses, identified as B through Z, AA through AC, AG through AM, AO and AP, AS through AY, BA through BD and BF through BK, controlling talc, barite and calcium carbonate processing facilities. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the roller miller did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION E.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: NSPS Subpart OOO for:

- (a) One (1) grinding plant, installed in 1991, exhausted to Stacks A through K and M controlled by twelve (12) baghouses, identified as A through K and M, capacity: 14.0 tons of talc, barite or calcium carbonate per hour, consisting of the following:
 - (2) Two (2) silos, identified as North and South, connected pneumatically to baghouses, identified as B and C, exhausted to Stacks B and C, throughput capacity: 35.0 tons of ore per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (4) One (1) classifier #1, connected pneumatically to a baghouse, identified as E, exhausted to Stack E, throughput capacity: 10.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a screening operation and is an affected facility.
 - (5) Six (6) silos, identified as Red, Green, Blue, Yellow, Pink and Orange, connected pneumatically to baghouses, identified as F, G, H, I, J and K, exhausted to Stacks F, G, H, I, J and K, respectively, throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (b) Four (4) silos, identified as Silo #1, Silo #2, Silo #3 and Silo #4, installed in 1994, connected pneumatically to baghouses, identified as N, O, P and Q, exhausted to Stacks N, O, P and Q, respectively, capacity: 8,313 cubic feet, each, and throughput capacity: 14.0 tons of minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (c) Two (2) silos, identified as Silo #5 and Silo #6, installed in 1994, connected pneumatically to baghouses, identified as R and S, exhausted to Stacks R and S, capacity: 6,107 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (d) Five (5) silos, identified as Silo #7, Silo #8, Silo #9, Silo #10 and Silo #11, installed in 1994, connected pneumatically to baghouses, identified as T, U, V, W and X, exhausted to Stacks T, U, V, W and X, respectively, capacity: 11,083 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (e) One (1) hammer mill micronizer, identified as #1 Bepex, manufactured on December 10, 1974, installed in 1994, connected pneumatically to a baghouse, identified as Y, exhausted to Stack Y, capacity: 1.00 ton of nonmetallic minerals per hour.
- (f) One (1) ball mill micronizer, identified as Ball Mill, manufactured on January 25, 1950, connected pneumatically to a baghouse, identified as Z, exhausted to Stack Z, capacity: 7.5 tons of nonmetallic minerals per hour, two (2) silos, identified as Silo #12 connected pneumatically to a baghouse, identified as AA, throughput capacity: 14.0 tons of nonmetallic minerals per hour, and Silo #13, connected pneumatically to a baghouse, identified as AB, throughput capacity: 35.0 tons of ore per hour, exhausted to Stacks AA and AB, capacity: 6,688 cubic feet, each and one (1) classifier #3, installed in 1994, connected pneumatically to a baghouse, identified as AC, exhausted to Stack AC, capacity: 10.0 tons of minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, Silo #12 and #13 are storage bins and are affected facilities and the classifier #3 is a screening operation and is an affected facility.

Emissions Unit Description: NSPS Subpart OOO for: (continued)

- (g) One (1) pellet mill and natural gas-fired dryer, identified as Pellet Mill, installed in 1996, connected pneumatically to a baghouse, identified as AY, installed in 2006, exhausted to Stack AY, capacity: 8.0 tons of nonmetallic minerals per hour and rated at 6.0 million British thermal units per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility. Under NSPS, 40 CFR Part 60.730, Subpart UUU, the dryer is an affected facility.
- (h) Five (5) material storage silos, identified as Silo A, Silo B, Silo C, Silo D and Silo #14, exhausted to Stacks AG, AH, AI, AJ and AK, respectively, connected pneumatically to baghouses, identified as AG, AH, AI, AJ and AK, respectively, installed in 1997, capacity: 12,038 cubic feet, each, and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Silos A, B, C and D are also connected pneumatically to a common baghouse, identified as AM for unloading/transfer purposes, throughput capacity: 14.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
- (i) One (1) Bepex/Air Mill Room, capacity: 2.0 tons of nonmetallic minerals per hour, consisting of:
 - (1) Three (3) silos, identified as Silo #15, Silo #16 and Silo #17, connected pneumatically to baghouses, identified as AO, AS and AT, exhausted to Stacks AO, AS and AT, throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (2) One (1) single air mill (powder), connected pneumatically to a baghouse, identified as AP, exhausted to Stack AP, throughput capacity: 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (j) One (1) twin air mill, connected pneumatically to a baghouse, identified as AU, exhausted to Stack AU, installed in 2004, capacity: 2.0 tons of talc per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (k) One (1) air jet milling system, installed in 2005, capacity of 2.5 tons of nonmetallic minerals per hour, consisting of:
 - (1) Two (2) silos, identified as Silo #18 and Silo #19, connected pneumatically to baghouses, identified as AV, and AW, exhausted to Stacks AV and AW, capacity; 3,950 cubic feet, each and throughput capacity: 14.0 tons of nonmetallic minerals per hour, each. Under NSPS, 40 CFR Part 60.670, Subpart OOO, these are storage bins and are affected facilities.
 - (2) One (1) #3 air mill, connected pneumatically to a baghouse, identified as AX, exhausted to Stack AX, capacity 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (l) One (1) classifier #2, connected pneumatically to a baghouse, identified as BA installed in 1995, exhausted to Stack BA, capacity: 10.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a screening operation and is an affected facility.
- (m) One (1) Pellet Mill Transfer, pneumatically connected to a baghouse, identified as BB, installed in 1999, exhausted to Stack BB, capacity: 4.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a pneumatic system and is an affected facility.

Emissions Unit Description: NSPS Subpart OOO for: (continued)

- (n) One (1) product recycling bin, connected pneumatically to a baghouse, identified as BC, installed in 2001, exhausted to Stack BC, capacity: 5.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a storage bin and is an affected facility.
- (o) One (1) R1 bin, connected pneumatically to a baghouse, identified as BD, installed in 1994, exhausted to Stack BD, capacity: 25.0 tons of ore per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a storage bin and is an affected facility.
- (p) One (1) auto packaging machine operation, connected pneumatically to a baghouse, identified as BF, installed in 2002, exhausted to Stack BF, capacity: 8.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a bagging operation and is an affected facility.
- (q) One (1) cosmetic circuit receiver, connected pneumatically to a baghouse, identified as BG, installed in 1992, exhausted to Stack BG, capacity: 7.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a pneumatic system and is an affected facility.
- (r) One (1) bulk truck loadout operation, connected pneumatically to a baghouse, identified as BH, installed in 1996, exhausted to Stack BH, capacity: 16.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a loading station and is an affected facility.
- (s) One (1) bulk railcar loadout operation, connected pneumatically to a baghouse, identified as BI, installed in 1997, exhausted to Stack BI, capacity: 8.0 tons of nonmetallic minerals per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a loading station and is an affected facility.
- (t) One (1) twin air jet milling system, identified as BJ, consisting of mills # 5 & 6, approved for construction in 2010, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BJ, for product reclamation, and exhausting outside the building through Stack BJ. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.
- (u) One (1) twin air jet milling system, identified as BK, consisting of mills # 7 & 8, approved for construction in 2011, for dry material size reduction of talc products, with a maximum throughput capacity of two (2.0) tons of talc per hour, connected pneumatically to one (1) integral baghouse, identified as BK, for product reclamation, and exhausting outside the building through Stack BK.

Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

New Source Performance Standards (NSPS) Requirements [326 IAC 2-6

E.1.1 General Provisions Relating to NSPS Subpart OOO [326 IAC 12] [40 CFR Part 60, Subpart A]

Pursuant to 40 CFR 60.670, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12 for the talc, barite and calcium carbonate processing source, as specified in Table 1 of 40 CFR Part 60, Subpart OOO in accordance with schedule in 40 CFR 60 Subpart OOO.

E.1.2 NSPS Subpart OOO Requirements [40 CFR Part 60, Subpart OOO] [326 IAC 12]

Pursuant to CFR Part 60, Subpart OOO, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart OOO, which are incorporated by reference as 326 IAC 12 for the facilities listed in Section E.1 as specified as follows.

Subpart 000—Standards of Performance for Nonmetallic Mineral Processing Plants

Subpart 000—Standards of Performance for Nonmetallic Mineral Processing Plants

Source: 74 FR 19309, Apr. 28, 2009, unless otherwise noted.

§ 60.670 Applicability and designation of affected facility.

(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; plants without crushers or grinding mills above ground; and wet material processing operations (as defined in §60.671).

(b) An affected facility that is subject to the provisions of subparts F or I of this part or that follows in the plant process any facility subject to the provisions of subparts F or I of this part is not subject to the provisions of this subpart.

(c) Facilities at the following plants are not subject to the provisions of this subpart:

(1) Fixed sand and gravel plants and crushed stone plants with capacities, as defined in §60.671, of 23 megagrams per hour (25 tons per hour) or less;

(2) Portable sand and gravel plants and crushed stone plants with capacities, as defined in §60.671, of 136 megagrams per hour (150 tons per hour) or less; and

(3) Common clay plants and pumice plants with capacities, as defined in §60.671, of 9 megagrams per hour (10 tons per hour) or less.

(d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in §60.676(a).

(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of §§60.672, 60.674 and 60.675.

(e) An affected facility under paragraph (a) of this section that commences construction, modification, or reconstruction after August 31, 1983, is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that do not apply to owners and operators of affected facilities subject to this subpart or that apply with certain exceptions.

§ 60.671 Definitions.

All terms used in this subpart, but not specifically defined in this section, shall have the meaning given them in the Act and in subpart A of this part.

Bagging operation means the mechanical process by which bags are filled with nonmetallic minerals.

Belt conveyor means a conveying device that transports material from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

Bucket elevator means a conveying device of nonmetallic minerals consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

Building means any frame structure with a roof.

Capacity means the cumulative rated capacity of all initial crushers that are part of the plant.

Capture system means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport particulate matter generated by one or more affected facilities to a control device.

Control device means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere from one or more affected facilities at a nonmetallic mineral processing plant.

Conveying system means a device for transporting materials from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to the following: Feeders, belt conveyors, bucket elevators and pneumatic systems.

Crush or *Crushing* means to reduce the size of nonmetallic mineral material by means of physical impaction of the crusher or grinding mill upon the material.

Crusher means a machine used to crush any nonmetallic minerals, and includes, but is not limited to, the following types: Jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

Enclosed truck or railcar loading station means that portion of a nonmetallic mineral processing plant where nonmetallic minerals are loaded by an enclosed conveying system into enclosed trucks or railcars.

Fixed plant means any nonmetallic mineral processing plant at which the processing equipment specified in §60.670(a) is attached by a cable, chain, turnbuckle, bolt or other means (except electrical connections) to any anchor, slab, or structure including bedrock.

Fugitive emission means particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation.

Grinding mill means a machine used for the wet or dry fine crushing of any nonmetallic mineral. Grinding mills include, but are not limited to, the following types: Hammer, roller, rod, pebble and ball, and fluid energy. The grinding mill includes the air conveying system, air separator, or air classifier, where such systems are used.

Initial crusher means any crusher into which nonmetallic minerals can be fed without prior crushing in the plant.

Nonmetallic mineral means any of the following minerals or any mixture of which the majority is any of the following minerals:

(1) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell.

(2) Sand and Gravel.

(3) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay.

(4) Rock Salt.

(5) Gypsum (natural or synthetic).

(6) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.

(7) Pumice.

(8) Gilsonite.

(9) Talc and Pyrophyllite.

(10) Boron, including Borax, Kernite, and Colemanite.

(11) Barite.

- (12) Fluorospar.
- (13) Feldspar.
- (14) Diatomite.
- (15) Perlite.
- (16) Vermiculite.
- (17) Mica.
- (18) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.

Nonmetallic mineral processing plant means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants, or any other facility processing nonmetallic minerals except as provided in §60.670 (b) and (c).

Portable plant means any nonmetallic mineral processing plant that is mounted on any chassis or skids and may be moved by the application of a lifting or pulling force. In addition, there shall be no cable, chain, turnbuckle, bolt or other means (except electrical connections) by which any piece of equipment is attached or clamped to any anchor, slab, or structure, including bedrock that must be removed prior to the application of a lifting or pulling force for the purpose of transporting the unit.

Production line means all affected facilities (crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck and railcar loading stations) which are directly connected or are connected together by a conveying system.

Saturated material means, for purposes of this subpart, mineral material with sufficient surface moisture such that particulate matter emissions are not generated from processing of the material through screening operations, bucket elevators and belt conveyors. Material that is wetted solely by wet suppression systems is not considered to be "saturated" for purposes of this definition.

Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens). Grizzly feeders associated with truck dumping and static (non-moving) grizzlies used anywhere in the nonmetallic mineral processing plant are not considered to be screening operations.

Seasonal shut down means shut down of an affected facility for a period of at least 45 consecutive days due to weather or seasonal market conditions.

Size means the rated capacity in tons per hour of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in tons of a storage bin.

Stack emission means the particulate matter that is released to the atmosphere from a capture system.

Storage bin means a facility for storage (including surge bins) of nonmetallic minerals prior to further processing or loading.

Transfer point means a point in a conveying operation where the nonmetallic mineral is transferred to or from a belt conveyor except where the nonmetallic mineral is being transferred to a stockpile.

Truck dumping means the unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another. Movable vehicles include but are not limited to: Trucks, front end loaders, skip hoists, and railcars.

Vent means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter emissions from one or more affected facilities.

Wet material processing operation(s) means any of the following:

(1) Wet screening operations (as defined in this section) and subsequent screening operations, bucket elevators and belt conveyors in the production line that process saturated materials (as defined in this section) up to the first crusher, grinding mill or storage bin in the production line; or

(2) Screening operations, bucket elevators and belt conveyors in the production line downstream of wet mining operations (as defined in this section) that process saturated materials (as defined in this section) up to the first crusher, grinding mill or storage bin in the production line.

Wet mining operation means a mining or dredging operation designed and operated to extract any nonmetallic mineral regulated under this subpart from deposits existing at or below the water table, where the nonmetallic mineral is saturated with water.

Wet screening operation means a screening operation at a nonmetallic mineral processing plant which removes unwanted material or which separates marketable fines from the product by a washing process which is designed and operated at all times such that the product is saturated with water.

§ 60.672 Standard for particulate matter (PM).

(a) Affected facilities must meet the stack emission limits and compliance requirements in Table 2 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.8. The requirements in Table 2 of this subpart apply for affected facilities with capture systems used to capture and transport particulate matter to a control device.

(b) Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11. The requirements in Table 3 of this subpart apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.

(c) [Reserved]

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

(e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) and (b) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

(1) Fugitive emissions from the building openings (except for vents as defined in §60.671) must not exceed 7 percent opacity; and

(2) Vents (as defined in §60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of this subpart.

(f) Any baghouse that controls emissions from only an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) in Table 2 of this subpart but must meet the applicable stack opacity limit and compliance requirements in Table 2 of this subpart. This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions.

§ 60.673 Reconstruction.

(a) The cost of replacement of ore-contact surfaces on processing equipment shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital cost that would be required to construct a comparable new facility" under §60.15. Ore-contact surfaces are crushing surfaces; screen meshes, bars, and plates; conveyor belts; and elevator buckets.

(b) Under §60.15, the "fixed capital cost of the new components" includes the fixed capital cost of all depreciable components (except components specified in paragraph (a) of this section) which are or will be replaced pursuant to all continuous programs of component replacement commenced within any 2-year period following August 31, 1983.

§ 60.674 Monitoring of operations.

(a) The owner or operator of any affected facility subject to the provisions of this subpart which uses a wet scrubber to control emissions shall install, calibrate, maintain and operate the following monitoring devices:

(1) A device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 250 pascals ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.

(2) A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

(b) The owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses wet suppression to control emissions from the affected facility must perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expeditiously as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray nozzles. The owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under §60.676(b).

(1) If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in Table 3 of this subpart provided that the affected facility meets the criteria in paragraphs (b)(1)(i) and (ii) of this section:

(i) The owner or operator of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to paragraph (b) of this section and §60.676(b), and

(ii) The owner or operator of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under §60.11 of this part and §60.675 of this subpart.

(2) If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under §60.676(b) must specify the control mechanism being used instead of the water sprays.

(c) Except as specified in paragraph (d) or (e) of this section, the owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions must conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR part 60, Appendix A-7). The Method 22 (40 CFR part 60, Appendix A-7) test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation. The owner or operator must record each Method 22 (40 CFR part 60, Appendix A-7) test, including the date and any corrective actions taken, in the logbook required under §60.676(b). The owner or operator of the affected facility may establish a different baghouse-specific success level for the visible emissions test (other than no visible emissions) by conducting a PM performance test according to §60.675(b) simultaneously with a Method 22 (40 CFR part 60, Appendix A-7) to determine what constitutes normal visible emissions from that affected facility's baghouse when it is in compliance with the applicable PM concentration limit in Table 2 of this subpart. The revised visible emissions success level must be incorporated into the permit for the affected facility.

(d) As an alternative to the periodic Method 22 (40 CFR part 60, Appendix A-7) visible emissions inspections specified in paragraph (c) of this section, the owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions may use a bag leak detection system. The owner or operator must install, operate, and maintain the bag leak detection system according to paragraphs (d)(1) through (3) of this section.

(1) Each bag leak detection system must meet the specifications and requirements in paragraphs (d)(1)(i) through (viii) of this section.

(i) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 1 milligram per dry standard cubic meter (0.00044 grains per actual cubic foot) or less.

(ii) The bag leak detection system sensor must provide output of relative PM loadings. The owner or operator shall continuously record the output from the bag leak detection system using electronic or other means (e.g. , using a strip chart recorder or a data logger).

(iii) The bag leak detection system must be equipped with an alarm system that will sound when the system detects an increase in relative particulate loading over the alarm set point established according to paragraph (d)(1)(iv) of this section, and the alarm must be located such that it can be heard by the appropriate plant personnel.

(iv) In the initial adjustment of the bag leak detection system, the owner or operator must establish, at a minimum, the baseline output by adjusting the sensitivity (range) and the averaging period of the device, the alarm set points, and the alarm delay time.

(v) Following initial adjustment, the owner or operator shall not adjust the averaging period, alarm set point, or alarm delay time without approval from the Administrator or delegated authority except as provided in paragraph (d)(1)(vi) of this section.

(vi) Once per quarter, the owner or operator may adjust the sensitivity of the bag leak detection system to account for seasonal effects, including temperature and humidity, according to the procedures identified in the site-specific monitoring plan required by paragraph (d)(2) of this section.

(vii) The owner or operator must install the bag leak detection sensor downstream of the fabric filter.

(viii) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(2) The owner or operator of the affected facility must develop and submit to the Administrator or delegated authority for approval of a site-specific monitoring plan for each bag leak detection system. The owner or operator must operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. Each monitoring plan must describe the items in paragraphs (d)(2)(i) through (vi) of this section.

(i) Installation of the bag leak detection system;

(ii) Initial and periodic adjustment of the bag leak detection system, including how the alarm set-point will be established;

(iii) Operation of the bag leak detection system, including quality assurance procedures;

(iv) How the bag leak detection system will be maintained, including a routine maintenance schedule and spare parts inventory list;

(v) How the bag leak detection system output will be recorded and stored; and

(vi) Corrective action procedures as specified in paragraph (d)(3) of this section. In approving the site-specific monitoring plan, the Administrator or delegated authority may allow owners and operators more than 3 hours to alleviate a specific condition that causes an alarm if the owner or operator identifies in the monitoring plan this specific condition as one that could lead to an alarm, adequately explains why it is not feasible to alleviate this condition within 3 hours of the time the alarm occurs, and demonstrates that the requested time will ensure alleviation of this condition as expeditiously as practicable.

(3) For each bag leak detection system, the owner or operator must initiate procedures to determine the cause of every alarm within 1 hour of the alarm. Except as provided in paragraph (d)(2)(vi) of this section, the owner or operator must alleviate the cause of the alarm within 3 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:

(i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in PM emissions;

(ii) Sealing off defective bags or filter media;

(iii) Replacing defective bags or filter media or otherwise repairing the control device;

(iv) Sealing off a defective fabric filter compartment;

(v) Cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system; or

(vi) Shutting down the process producing the PM emissions.

(e) As an alternative to the periodic Method 22 (40 CFR part 60, Appendix A–7) visible emissions inspections specified in paragraph (c) of this section, the owner or operator of any affected facility that is subject to the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR part 63, subpart AAAAA) may follow the continuous compliance requirements in row 1 items (i) through (iii) of Table 6 to Subpart AAAAA of 40 CFR part 63.

§ 60.675 Test methods and procedures.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendices A–1 through A–7 of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (e) of this section.

(b) The owner or operator shall determine compliance with the PM standards in §60.672(a) as follows:

(1) Except as specified in paragraphs (e)(3) and (4) of this section, Method 5 of Appendix A–3 of this part or Method 17 of Appendix A–6 of this part shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5 (40 CFR part 60, Appendix A–3), if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.

(2) Method 9 of Appendix A–4 of this part and the procedures in §60.11 shall be used to determine opacity.

(c)(1) In determining compliance with the particulate matter standards in §60.672(b) or §60.672(e)(1), the owner or operator shall use Method 9 of Appendix A–4 of this part and the procedures in §60.11, with the following additions:

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

(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A–4 of this part, Section 2.1) must be followed.

(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

(2)(i) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under §60.672(f) of this subpart, using Method 9 (40 CFR part 60, Appendix A–4), the duration of the Method 9 (40 CFR part 60, Appendix A–4) observations shall be 1 hour (ten 6-minute averages).

(ii) The duration of the Method 9 (40 CFR part 60, Appendix A–4) observations may be reduced to the duration the affected facility operates (but not less than 30 minutes) for baghouses that control storage bins or enclosed truck or railcar loading stations that operate for less than 1 hour at a time.

(3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) or §60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A–4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages.

(d) To demonstrate compliance with the fugitive emission limits for buildings specified in §60.672(e)(1), the owner or operator must complete the testing specified in paragraph (d)(1) and (2) of this section. Performance tests must be conducted while all affected facilities inside the building are operating.

(1) If the building encloses any affected facility that commences construction, modification, or reconstruction on or after April 22, 2008, the owner or operator of the affected facility must conduct an initial Method 9 (40 CFR part 60, Appendix A–4) performance test according to this section and §60.11.

(2) If the building encloses only affected facilities that commenced construction, modification, or reconstruction before April 22, 2008, and the owner or operator has previously conducted an initial Method 22 (40 CFR part 60, Appendix A–7) performance test showing zero visible emissions, then the owner or operator has demonstrated

compliance with the opacity limit in §60.672(e)(1). If the owner or operator has not conducted an initial performance test for the building before April 22, 2008, then the owner or operator must conduct an initial Method 9 (40 CFR part 60, Appendix A-4) performance test according to this section and §60.11 to show compliance with the opacity limit in §60.672(e)(1).

(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

(2) A single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:

(i) No more than three emission points may be read concurrently.

(ii) All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.

(iii) If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.

(3) Method 5I of Appendix A-3 of this part may be used to determine the PM concentration as an alternative to the methods specified in paragraph (b)(1) of this section. Method 5I (40 CFR part 60, Appendix A-3) may be useful for affected facilities that operate for less than 1 hour at a time such as (but not limited to) storage bins or enclosed truck or railcar loading stations.

(4) In some cases, velocities of exhaust gases from building vents may be too low to measure accurately with the type S pitot tube specified in EPA Method 2 of Appendix A-1 of this part [*i.e.*, velocity head <1.3 mm H₂O (0.05 in. H₂O)] and referred to in EPA Method 5 of Appendix A-3 of this part. For these conditions, the owner or operator may determine the average gas flow rate produced by the power fans (*e.g.*, from vendor-supplied fan curves) to the building vent. The owner or operator may calculate the average gas velocity at the building vent measurement site using Equation 1 of this section and use this average velocity in determining and maintaining isokinetic sampling rates.

$$v_e = \frac{Q_f}{A_e} \quad (\text{Eq. 1})$$

Where:

V_e= average building vent velocity (feet per minute);

Q_f= average fan flow rate (cubic feet per minute); and

A_e= area of building vent and measurement location (square feet).

(f) To comply with §60.676(d), the owner or operator shall record the measurements as required in §60.676(c) using the monitoring devices in §60.674 (a)(1) and (2) during each particulate matter run and shall determine the averages.

(g) For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in §60.7(a)(6) and 60.8(d) to a 7-day advance notification.

(h) [Reserved]

(i) If the initial performance test date for an affected facility falls during a seasonal shut down (as defined in §60.671 of this subpart) of the affected facility, then with approval from the permitting authority, the owner or operator may postpone the initial performance test until no later than 60 calendar days after resuming operation of the affected facility.

§ 60.676 Reporting and recordkeeping.

(a) Each owner or operator seeking to comply with §60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.

(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

- (i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and
- (ii) The rated capacity in tons per hour of the replacement equipment.

(2) For a screening operation:

- (i) The total surface area of the top screen of the existing screening operation being replaced and
- (ii) The total surface area of the top screen of the replacement screening operation.

(3) For a conveyor belt:

- (i) The width of the existing belt being replaced and
- (ii) The width of the replacement conveyor belt.

(4) For a storage bin:

- (i) The rated capacity in megagrams or tons of the existing storage bin being replaced and
- (ii) The rated capacity in megagrams or tons of replacement storage bins.

(b)(1) Owners or operators of affected facilities (as defined in §§60.670 and 60.671) for which construction, modification, or reconstruction commenced on or after April 22, 2008, must record each periodic inspection required under §60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request.

(2) For each bag leak detection system installed and operated according to §60.674(d), the owner or operator must keep the records specified in paragraphs (b)(2)(i) through (iii) of this section.

- (i) Records of the bag leak detection system output;
- (ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and
- (iii) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3 hours of the alarm.

(3) The owner or operator of each affected facility demonstrating compliance according to §60.674(e) by following the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR part 63, subpart AAAAA) must maintain records of visible emissions observations required by §63.7132(a)(3) and (b) of 40 CFR part 63, subpart AAAAA.

(c) During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate.

(d) After the initial performance test of a wet scrubber, the owner or operator shall submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss and liquid flow rate decrease by more than 30 percent from the average determined during the most recent performance test.

(e) The reports required under paragraph (d) of this section shall be postmarked within 30 days following end of the second and fourth calendar quarters.

(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with §60.672(b), (e) and (f).

(g) The owner or operator of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in §60.672(b) and the emission test requirements of §60.11.

(h) The subpart A requirement under §60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under this subpart.

(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

(2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

(k) Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to §60.4(b).

Table 1 to Subpart 000—Exceptions to Applicability of Subpart A to Subpart 000

Table 1 to Subpart 000—Exceptions to Applicability of Subpart A to Subpart 000

Subpart A reference	Applies to subpart 000	Explanation
60.4, Address	Yes	Except in §60.4(a) and (b) submittals need not be submitted to both the EPA Region and delegated State authority (§60.676(k)).
60.7, Notification and recordkeeping	Yes	Except in (a)(1) notification of the date construction or reconstruction commenced (§60.676(h)).
		Also, except in (a)(6) performance tests involving only Method 9 (40 CFR part 60, Appendix A-4) require a 7-day advance notification instead of 30 days (§60.675(g)).
60.8, Performance tests	Yes	Except in (d) performance tests involving only Method 9 (40 CFR part 60, Appendix A-4) require a 7-day advance

		notification instead of 30 days (§60.675(g)).
60.11, Compliance with standards and maintenance requirements	Yes	Except in (b) under certain conditions (§§60.675(c)), Method 9 (40 CFR part 60, Appendix A-4) observation is reduced from 3 hours to 30 minutes for fugitive emissions.
60.18, General control device	No	Flares will not be used to comply with the emission limits.

Table 2 to Subpart 000—Stack Emission Limits for Affected Facilities With Capture Systems

Table 2 to Subpart 000—Stack Emission Limits for Affected Facilities With Capture Systems

For * * *	The owner or operator must meet a PM limit of * * *	And the owner or operator must meet an opacity limit of * * *	The owner or operator must demonstrate compliance with these limits by conducting * * *
Affected facilities (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008	0.05 g/dscm (0.022 gr/dscf) ^a	7 percent for dry control devices ^b	An initial performance test according to §60.8 of this part and §60.675 of this subpart; and Monitoring of wet scrubber parameters according to §60.674(a) and §60.676(c), (d), and (e).
Affected facilities (as defined in §§60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008	0.032 g/dscm (0.014 gr/dscf) ^a	Not applicable (except for individual enclosed storage bins) 7 percent for dry control devices on individual enclosed storage bins	An initial performance test according to §60.8 of this part and §60.675 of this subpart; and Monitoring of wet scrubber parameters according to §60.674(a) and §60.676(c), (d), and (e); and
			Monitoring of baghouses according to §60.674(c), (d), or (e) and §60.676(b).

^aExceptions to the PM limit apply for individual enclosed storage bins and other equipment. See §60.672(d) through (f).

^bThe stack opacity limit and associated opacity testing requirements do not apply for affected facilities using wet scrubbers.

Table 3 to Subpart 000—Fugitive Emission Limits

Table 3 to Subpart 000—Fugitive Emission Limits

For * * *	The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other	The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used * * *	The owner or operator must demonstrate compliance with these limits by conducting * * *

	affected facility (as defined in §§60.670 and 60.671) * * *		
Affected facilities (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008	10 percent opacity	15 percent opacity	An initial performance test according to §60.11 of this part and §60.675 of this subpart.
Affected facilities (as defined in §§60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008	7 percent opacity	12 percent opacity	An initial performance test according to §60.11 of this part and §60.675 of this subpart; and Periodic inspections of water sprays according to §60.674(b) and §60.676(b); and
			A repeat performance test according to §60.11 of this part and §60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in §60.674(b) and §60.676(b) are exempt from this 5-year repeat testing requirement.

SECTION E.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: NSPS Subpart UUU for:

- (g) One (1) pellet mill and natural gas-fired dryer, identified as Pellet Mill, installed in 1996, pneumatically connected to a baghouse, identified as AY, installed in 2006, exhausted to Stack AY, capacity: 8.0 tons of nonmetallic minerals per hour and rated at 6.0 million British thermal units per hour. Under NSPS, 40 CFR Part 60.670, Subpart OOO, this is a grinding mill and is an affected facility. Under NSPS, 40 CFR Part 60.730, Subpart UUU, the dryer is an affected facility.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

New Source Performance Standards (NSPS) Requirements [326 IAC 2-6]

E.2.1 General Provisions Relating to NSPS Subpart UUU [326 IAC 12] [40 CFR Part 60, Subpart A]

Pursuant to 40 CFR 60.736, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12 for the natural gas-fired dryer, as specified in 40 CFR Part 60, Subpart UUU in accordance with schedule in 40 CFR 60 Subpart UUU.

E.2.2 NSPS Subpart UUU Requirements [40 CFR Part 60, Subpart UUU] [326 IAC 12]

Pursuant to CFR Part 60, Subpart UUU, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart UUU, which are incorporated by reference as 326 IAC 12 for the natural gas-fired dryer, identified as part of the Pellet Mill as specified as follows.

Subpart UUU—Standards of Performance for Calciners and Dryers in Mineral Industries

Source: 57 FR 44503, Sept. 28, 1992, unless otherwise noted.

§ 60.730 Applicability and designation of affected facility.

(a) The affected facility to which the provisions of this subpart apply is each calciner and dryer at a mineral processing plant. Feed and product conveyors are not considered part of the affected facility. For the brick and related clay products industry, only the calcining and drying of raw materials prior to firing of the brick are covered.

(b) An affected facility that is subject to the provisions of subpart LL, Metallic Mineral Processing Plants, is not subject to the provisions of this subpart. Also, the following processes and process units used at mineral processing plants are not subject to the provisions of this subpart: vertical shaft kilns in the magnesium compounds industry; the chlorination-oxidation process in the titanium dioxide industry; coating kilns, mixers, and aerators in the roofing granules industry; and tunnel kilns, tunnel dryers, apron dryers, and grinding equipment that also dries the process material used in any of the 17 mineral industries (as defined in §60.731, "Mineral processing plant").

(c) The owner or operator of any facility under paragraph (a) of this section that commences construction, modification, or reconstruction after April 23, 1986, is subject to the requirements of this subpart.

§ 60.731 Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act and in subpart A of this part.

Calciner means the equipment used to remove combined (chemically bound) water and/or gases from mineral material through direct or indirect heating. This definition includes expansion furnaces and multiple hearth furnaces.

Control device means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere from one or more affected facilities.

Dryer means the equipment used to remove uncombined (free) water from mineral material through direct or indirect heating.

Installed in series means a calciner and dryer installed such that the exhaust gases from one flow through the other and then the combined exhaust gases are discharged to the atmosphere.

Mineral processing plant means any facility that processes or produces any of the following minerals, their concentrates or any mixture of which the majority (>50 percent) is any of the following minerals or a combination of these minerals: alumina, ball clay, bentonite, diatomite, feldspar, fire clay, fuller's earth, gypsum, industrial sand, kaolin, lightweight aggregate, magnesium compounds, perlite, roofing granules, talc, titanium dioxide, and vermiculite.

§ 60.732 Standards for particulate matter.

Each owner or operator of any affected facility that is subject to the requirements of this subpart shall comply with the emission limitations set forth in this section on and after the date on which the initial performance test required by §60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first. No emissions shall be discharged into the atmosphere from any affected facility that:

(a) Contains particulate matter in excess of 0.092 gram per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)] for calciners and for calciners and dryers installed in series and in excess of 0.057 g/dscm (0.025 gr/dscf) for dryers; and

(b) Exhibits greater than 10 percent opacity, unless the emissions are discharged from an affected facility using a wet scrubbing control device.

[57 FR 44503, Sept. 28, 1992, as amended at 65 FR 61778, Oct. 17, 2000]

§ 60.733 Reconstruction.

The cost of replacement of equipment subject to high temperatures and abrasion on processing equipment shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital cost that would be required to construct a comparable new facility" under §60.15. Calciner and dryer equipment subject to high temperatures and abrasion are: end seals, flights, and refractory lining.

§ 60.734 Monitoring of emissions and operations.

(a) With the exception of the process units described in paragraphs (b), (c), and (d) of this section, the owner or operator of an affected facility subject to the provisions of this subpart who uses a dry control device to comply with the mass emission standard shall install, calibrate, maintain, and operate a continuous monitoring system to measure and record the opacity of emissions discharged into the atmosphere from the control device.

(c) The owner or operator of a ball clay rotary dryer, a diatomite rotary dryer, a feldspar fluid bed dryer, a fuller's earth rotary dryer, a gypsum rotary dryer, a gypsum flash calciner, gypsum kettle calciner, an industrial sand rotary dryer, a kaolin rotary dryer, a kaolin multiple hearth furnace, a perlite expansion furnace, a talc flash dryer, a talc rotary dryer, a titanium dioxide direct or indirect rotary dryer or a vermiculite expansion furnace who uses a dry control device is exempt from the monitoring requirements of this section.

§ 60.735 Recordkeeping and reporting requirements.

(a) Records of the measurements required in §60.734 of this subpart shall be retained for at least 2 years.

(c) Each owner or operator shall submit written reports semiannually of exceedances of control device operating parameters required to be monitored by §60.734 of this subpart. For the purpose of these reports, exceedances are defined as follows:

(1) All 6-minute periods during which the average opacity from dry control devices is greater than 10 percent; or

(d) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Clean Air Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected facilities within the State will be relieved of the obligation to comply with this section provided that they comply with the requirements established by the State.

[57 FR 44503, Sept. 28, 1992, as amended at 58 FR 40591, July 29, 1993]

§ 60.736 Test methods and procedures.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.732 as follows:

(1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and volume for each test run shall be at least 2 hours and 1.70 dscm.

(2) Method 9 and the procedures in §60.11 shall be used to determine opacity from stack emissions.

§ 60.737 Delegation of authority.

(a) In delegating implementation and enforcement authority to a State under section 111(c) of the Act, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State.

(b) Authorities which will not be delegated to States: No restrictions.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Source Name:	Cimbar Performance Minerals MV, LLC
Address:	2700 Bluff Road
City:	Mt. Vernon, Indiana 47620
Phone #:	812- 838-8330
MSOP #:	129-22660-00023

I hereby certify that Cimbar Performance Minerals MV. LLC is

- still in operation.
- no longer in operation.

I hereby certify that Cimbar Performance Minerals MV. LLC is

- in compliance with the requirements of MSOP 129-22660-00023.
- not in compliance with the requirements of MSOP 129-22660-00023.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

**Please note - This form should only be used to report malfunctions
applicable to Rule 326 IAC 1-6 and to qualify for
the exemption under 326 IAC 1-6-4.**

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

**Minor Source Operating Permit
(MSOP) Renewal
OFFICE OF AIR QUALITY**

**Cimbar Performance Minerals MV, LLC
2700 Bluff Road
Mt. Vernon, Indiana 47620**

Attachment A

**MINERAL ORE PROCESSING FACILITY
FUGITIVE DUST CONTROL PLAN**

129-30446-00023

MINERAL ORE PROCESSING FACILITY FUGITIVE DUST CONTROL PLAN

Background

Fugitive dust sources from this site can be categorized into four groups: roadways, stockpiles, ore transportation, and process bin loading (interior). Ore stockpiles are located in three areas: inside, outside, and outside-under-shed. All stockpiles are contained within 8' high concrete bunkers. All roadways are paved. Transportation is by haul truck and front-end loader. Bin loading is by front-end loader. The three mineral ores processed are Talc, Barite, and Calcium Carbonate. Total site area is seven (7.0) acres.

Plan of Control

A. Person responsible for plan implementation:

Plant Manager
2700 Bluff Rd.
Mt. Vernon, IN 47620
(812) 838-8330 ext. 235

B. Roadway Control Measures

Fugitive particulate matter emissions from paved roads shall be controlled by one or more of the following:

- (1) watering (on an as needed basis).
- (2) vehicle speed shall not exceed 10 mph.

C. Stockpiles

Fugitive particulate matter emissions from ore stockpiles shall be controlled by one or more of the following:

- (1) watering of the stockpiles (on an as needed basis).
- (2) watering around the stockpile areas (on an as needed basis).

D. Transporting

Fugitive particulate matter emissions from the transportation of ore by truck, front-end loader, etc. shall be controlled by one or more of the following methods:

- (1) tarping of all trucks used to haul incoming ore shipments to the plantsite.
- (2) minimizing the vehicular distance required for ore transfers.
- (3) maintaining ten (10) mph speed limit.
- (4) watering stockpiles (on an as needed basis).

Note: "An as-needed basis" means the frequency or quantity of application necessary to minimize visible particulate matter emissions.

- E. Bin loading
Fugitive particulate matter emissions from the loading of the process bin (inside) by the front-end loader shall be controlled by one or more of the following methods:
- (1) watering of the stockpiles (on an as needed basis).
 - (2) minimizing the free-fall distance into the process bin.
 - (3) decreasing the rate of discharge into the process bin.
 - (4) minimizing the angle of discharge into the process bin.

Records shall be kept and maintained which document all control measures and activities to be implemented in accordance with the control plan. Said records shall be available upon the request of the commissioner, and shall be retained for three (3) years.

Last Updated: May 10, 2010
Initial Submission: September 24, 2007

Reference

The Indiana Administrative Code, Title 326 Air Pollution Control Board, Article 6: Particulate Rules, weblink:
<http://www.in.gov/legislative/iac/T03260/A00060.PDF?> . See page 12 for Rule 5: Fugitive Particulate Matter Emission Limitations.

Appendix A: Emissions Calculations
Summary of Emissions from the Entire Source after the Revision

Company Name: Cimbar Performance Minerals MV, LLC
Address City IN Zip: 2700 Bluff Road, Mt. Vernon, Indiana 47620
MSOP Renewal: 129-22660-00023
Revision No: 129-30446-00023
Reviewer: Jack Harmon
Date Received: April 19, 2011

Integral and Uncontrolled Potential Emissions									
	PM (tons/yr)	PM-10 (tons/yr)	PM-2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Lead (tons/yr)	HAPs (tons/yr)
<i>Existing Units (from Permit No.: 129-29181-00023)</i>									
All Integral Control Units From Page 3	69.1	69.1	69.1	0	0	0	0	0	0
Nat. Gas Comb.	0.050	0.200	0.150	0.016	2.63	0.145	2.21	0.04960	0.050
Crusher System	0.153	0.153	0.153	0	0	0	0	0	0
Paved Roads	10.4	2.02	2.02	0	0	0	0	0	0
Loading & Unload	0.354	0.354	0.354	0	0	0	0	0	0
Subtotal	80.0	71.8	71.8	0.016	2.63	0.145	2.21	0.0496	0.050
<i>NEW Units</i>									
Twin Air Jet Mills #7 & #8 (BK)*	0.539	0.539	0.539	0	0	0	0	0	0
Total	80.6	72.4	72.3	0.016	2.63	0.145	2.21	0.0496	0.050

* PTE after control - integral

Limited and Controlled Potential Emissions									
	PM (tons/yr)	PM-10 (tons/yr)	PM-2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Lead (tons/yr)	HAPs (tons/yr)
<i>Existing Units (from Permit No.: 129-29181-00023)</i>									
All Integral Control Units subject to NSPS OOO/UUU	57.5	57.5	57.5	0	0	0	0	0	0
Roller Mill	4.05	4.05	4.05	0	0	0	0	0	0
Impact Mill	4.05	4.05	4.05	0	0	0	0	0	0
#1 Bepex	0.912	0.912	0.912	0	0	0	0	0	0
Ball Mill	2.61	2.61	2.61	0	0	0	0	0	0
Nat. Gas Comb.	0.050	0.200	0.150	0.016	2.628	0.145	2.208	0.0496	0.050
Crusher System	0.153	0.153	0.153	0	0	0	0	0	0
Paved Roads	10.4	2.02	2.02	0	0	0	0	0	0
Loading & Unload	0.354	0.354	0.354	0	0	0	0	0	0
Subtotal	80.0	71.8	71.8	0.016	2.63	0.145	2.21	0.0496	0.050
<i>NEW Units</i>									
Twin Air Jet Mills #7 & #8 (BK)*	0.539	0.539	0.539	0	0	0	0	0	0
Total	80.6	72.4	72.3	0.016	2.63	0.145	2.21	0.0496	0.050

* PTE after control - integral



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Brett Cline
Cimbar Performance Mine
2700 Bluff Rd
Mt Vernon In 47620

DATE: May 10, 2011

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
5th MSOP Notice Only Change
129-30446-00023

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Paul Householder
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	DJACKSON 5/10/2011 Cimbar Performance Minerals MV, LLC 123-30446-00023 (final)	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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1		Brett Cline Cimbar Performance Minerals MV, LLC 2700 Bluff Rd Mount Vernon IN 47620 (Source CAATS)										
2		Paul Householder Plant Mgr Cimbar Performance Minerals MV, LLC 2700 Bluff Rd Mount Vernon IN 47620 (RO CAATS)										
3		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)										
4		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
5		Posey County Commissioners County Courthouse, 126 E. 3rd Street Mount Vernon IN 47620 (Local Official)										
6		Mr. Bob Deig 7130 Carson School Rd Mount Vernon IN 47620 (Affected Party)										
7		Posey County Health Department 126 E. 3rd St, Coliseum Bldg Mount Vernon IN 47620-1811 (Health Department)										
8		Mount Vernon City Council and Mayors Office 520 Main Street Mount Vernon IN 47620 (Local Official)										
9		Dr. Jeff Seyler Univ. of So Ind., 8600 Univ. Blvd. Evansville IN 47712 (Affected Party)										
10		Mr. Don Mottley Save Our Rivers 6222 Yankee town Hwy Boonville IN 47601 (Affected Party)										
11		Mrs. Connie Parkinson 510 Western Hills Dr. Mt. Vernon IN 47620 (Affected Party)										
12		Robert Hess c/o Mellon Corporation 830 Post Road East, Suite 105 Westport CT 06880 (Affected Party)										
13		Juanita Burton 7911 W. Franklin Road Evansville IN 47712 (Affected Party)										
14		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										
15												

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