INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: November 17, 2005

RE: US Gypsum Company / 089-21947-00333

FROM: Paul Dubenetzky
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, Room 1049, 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.dot 1/10/05

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.in.gov/idem

November 17, 2005

Mr. Jay King
Plant Manager
United States Gypsum Company
301 Riley Road
East Chicago, IN 46312

Re: 089-21947-00333
Third Administrative Amendment to
Part 70 089-7532-00333

Dear Mr. King:

United States Gypsum Company was issued a Part 70 Operating Permit T 089-7532-00333 on July 6, 1999 for a stationary gypsum wallboard and gypsum products manufacturing plant. A letter requesting a change was received on October 20, 2005. The changes are as follows with deleted language as ~~strikeouts~~ and new language **bolded.** Pursuant to the provisions of 326 IAC 2-7-11, the permit is hereby administratively amended as follows:

Stack M-22, which is associated with the existing calcining kettle (kettle #1), has been replaced by a new stack, designated as Stack M-22A. The kettle operation and associated dust collector remain the same. The replacement of the exhaust stack is the only change.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(15)]

A stucco production process, consisting of the following equipment:

(b) One (1) calcining kettle, known as calcining kettle #1, with a maximum throughput of 11.5 tons per hour, with particulate emissions controlled by one (1) baghouse, identified as MBH-22, and exhausting through one (1) stack, identified as M-22**A**.

(e) One (1) natural gas-fired burner for calcining kettle #1, with a heat input capacity of 7.5 MMBtu per hour, and exhausting through one (1) stack, identified as M-22**A**.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

(b) One (1) calcining kettle, known as calcining kettle #1, with a maximum throughput of 11.5 tons per hour, with particulate emissions controlled by one (1) baghouse, identified as MBH-22, and exhausting through one (1) stack, identified as M-22**A**.

(e) One (1) natural gas-fired burner for calcining kettle #1, with a heat input capacity of 7.5 MMBtu per hour, and exhausting through one (1) stack, identified as M-22**A**.

D.3.1 Nonattainment Area Particulate Limitation [326 IAC 6.8]

(b) PM emissions from calcining kettle #1 exhausting to stack M-22**A** shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(e) PM emissions from the natural gas-fired burner for kettle #1 exhausting to stack M-22**A** shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.3.6 New Source Performance Standard [326 IAC 12] [40 CFR 60, Subpart UUU]

Pursuant to 40 CFR 60, Subpart UUU (Calciners and Dryers in Mineral Industries), PM emissions from kettle #1 exhausting to stack M-22**A**, kettle #1B exhausting to stack M-22B, and kettle #2 exhausting to stack M-16, shall not exceed 0.092 grams per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)] and ten percent (10%) opacity.

D.3.9 Testing Requirements [326 IAC 2-7-6(1),(6)]

(a) To demonstrate compliance with 40 CFR 60, Subpart UUU (Calciners and Dryers in Mineral Industries), and Condition D.3.6, the Permittee shall perform compliance testing for PM and opacity from calcining kettle #1 exhausting through stack M-22**A** and calcining kettle #2, exhausting through stack M-16, within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The tests shall be performed in accordance with Section C - Performance Testing and 40 CFR 60.736.

D.3.11 Visible Emissions Notations

(a) Visible emission notations of the stack exhausts M-1, M-2, M-16, M-22**A**, M-22B, M-23, M-25, M-27 and M-28 shall be performed once per shift during normal daylight operations when exhausting directly to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

D.3.15 Record Keeping Requirements

(b) To document compliance with Condition D.3.11, the Permittee shall maintain records of visible emission notations of the stack exhausts M-1, M-2, M-16, M-22**A**, M-22B, M-23, M-25, M-27 and M-28, once per shift.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

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 Edward A. Longenberger, c/o OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204, at 631-691-3395 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,
Original signed by

Nisha Sizemore, Section Chief
Office of Air Quality

EAL/MES
Attachments
cc: File - Lake County
U.S. EPA, Region V
Lake County Health Department
Northwest Regional Office
Air Compliance Section Inspector – Rick Massoels
Compliance Branch
Administrative and Development Section
Technical Support and Modeling - Michele Boner

MENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

100 North Senate Avenue

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

United States Gypsum Company
301 Riley Road
East Chicago, Indiana 46312

(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.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T089-7532-00333	
Original Signed by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: July 6, 1999 Expiration Date: July 6, 2004

1st Significant Permit Modification No. 089-11767-00333	Issuance Date: November 13, 2002
1st Significant Source Modification No. 089-16064-00333	Issuance Date: March 4, 2003
2nd Significant Permit Modification No. 089-16805-00333	Issuance Date: March 14, 2003
2nd Significant Source Modification No. 089-18553-00333	Issuance Date: April 27, 2004
3rd Significant Permit Modification No. 089-18554-00333	Issuance Date: May 12, 2004
1st Administrative Amendment No. 089-19720-00333	Issuance Date: September 3, 2004
2nd Administrative Amendment No. 089-19361-00333	Issuance Date: August 30, 2004
1st Minor Source Modification No. 089-19642-00333	Issuance Date: October 13, 2005
3rd Significant Source Modification No. 089-21284-00333	Issuance Date: pending
4th Significant Permit Modification No. 089-21728-00333	Issuance Date: pending
5th Significant Permit Modification No. 089-19551-00333	Issuance Date: pending

Third Administrative Amendment No.: AAT 089-21947-00333	Pages Affected: 8, 43 - 48
Original signed by: Nisha Sizemore, Section Chief Office of Air Quality	Issuance Date: November 17, 2005

A stucco production process, consisting of the following equipment:

(a) Two (2) kettle feed bins, known as kettle feed bin #1 and kettle feed bin #2, each with a maximum capacity of 60 tons, with particulate matter emissions controlled by two (2) baghouses. Emissions from kettle feed bin #1 will be controlled by one (1) baghouse, known as MBH-25, and exhausting through one (1) stack, identified as M-25. Emissions from kettle feed bin #2 will be controlled by one (1) baghouse, known as MBH-27 and exhausting through one (1) stack, identified as M-27.

(b) One (1) calcining kettle, known as calcining kettle #1, with a maximum throughput of 11.5 tons per hour, with particulate emissions controlled by one (1) baghouse, identified as MBH-22, and exhausting through one (1) stack, identified as M-22A.

(c) One (1) calcining kettle, known as calcining kettle #1B, with a maximum throughput of 12.0 tons per hour, with particulate emissions controlled by one (1) baghouse, identified as MBH-26, and exhausting through one (1) stack, identified as M-22B.

(d) One (1) calcining kettle, known as calcining kettle #2, with a maximum throughput of 45 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-16, and exhausting through one (1) stack, identified as M-16.

(e) One (1) natural gas-fired burner for calcining kettle #1, with a heat input capacity of 7.5 MMBtu per hour, and exhausting through one (1) stack, identified as M-22A.

(f) One (1) natural gas-fired burner for calcining kettle #1B, with a heat input capacity of 7.5 million British thermal units per hour, and exhausting through one (1) stack, identified as M-22B.

(g) Six (6) natural gas-fired burners for the calcining kettle #2, each with a heat input capacity of 5 MMBtu per hour, and exhausting through one (1) stack, identified as M-14.

(h) One (1) kettle feed bin, known as kettle feed bin #3, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-28, and exhausting through one (1) stack, identified as M-28.

(i) One (1) calcining kettle, known as calcining kettle #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-1, and exhausting through one (1) stack, identified as M-1.

(j) One (1) natural-gas fired burner for the calcining kettle #3, with a heat input capacity of 15 MMBtu per hour, and exhausting through one (1) stack, identified as M-6.

(k) One (1) hot pit, known as hot pit #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-1, and exhausting through one (1) stack, identified as M-1.

(l) Miscellaneous stucco handling equipment, including one (1) #4 stucco elevator, one (1) #17 screw, and one (1) #17A screw, with a maximum throughput of 70 tons per hour, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the stucco handling system are controlled by one (1) baghouse, identified as MBH-2, and exhausting through one (1) stack, identified as M-2.

(m) Stucco storage equipment, including one (1) #49 screw, and one (1) #47 screw, with a maximum capacity of seventy (70) tons per hour, and three stucco storage bins, known as #1, #2 and #3, each with a capacity of 175 tons, with particulate emissions controlled by one (1) baghouse, identified as MBH-24, and exhausting through one (1) stack, identified as M-23.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

A stucco production process, consisting of the following equipment:

(a) Two (2) kettle feed bins, known as kettle feed bin #1 and kettle feed bin #2, each with a maximum capacity of 60 tons, with particulate matter emissions controlled by two (2) baghouses. Emissions from kettle feed bin #1 will be controlled by one (1) baghouse, known as MBH-25, and exhausting through one (1) stack, identified as M-25. Emissions from kettle feed bin #2 will be controlled by one (1) baghouse, known as MBH-27, and exhausting through one (1) stack, identified as M-27.

(b) One (1) calcining kettle, known as calcining kettle #1, with a maximum throughput of 11.5 tons per hour, with particulate emissions controlled by one (1) baghouse, identified as MBH-22, and exhausting through one (1) stack, identified as M-22A.

(c) One (1) calcining kettle, known as calcining kettle #1B, with a maximum throughput of 12.0 tons per hour, with particulate emissions controlled by one (1) baghouse, identified as MBH-26, and exhausting through one (1) stack, identified as M-22B.

(d) One (1) calcining kettle, known as calcining kettle #2, with a maximum throughput of 45 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-16, and exhausting through one (1) stack, identified as M-16.

(e) One (1) natural gas-fired burner for calcining kettle #1, with a heat input capacity of 7.5 MMBtu per hour, and exhausting through one (1) stack, identified as M-22A.

(f) One (1) natural gas-fired burner for calcining kettle #1B, with a heat input capacity of 7.5 million British thermal units per hour, and exhausting through one (1) stack, identified as M-22B.

(g) Six (6) natural gas-fired burners for the calcining kettle #2, each with a heat input capacity of 5 MMBtu per hour, and exhausting through one (1) stack, identified as M-14.

(h) One (1) kettle feed bin, known as kettle feed bin #3, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-28, and exhausting through one (1) stack, identified as M-28.

(i) One (1) calcining kettle, known as calcining kettle #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-1, and exhausting through one (1) stack, identified as M-1.

(j) One (1) natural-gas fired burner for the calcining kettle #3, with a heat input capacity of 15 MMBtu per hour, and exhausting through one (1) stack, identified as M-6.

(k) One (1) hot pit, known as hot pit #3, with a maximum throughput of 30 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as MBH-1, and exhausting through one (1) stack, identified as M-1.

(l) Miscellaneous stucco handling equipment, including one (1) #4 stucco elevator, one (1) #17 screw, and one (1) #17A screw, with a maximum throughput of 70 tons per hour, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or directly to the atmosphere. Some portions of the stucco handling system are controlled by one (1) baghouse, identified as MBH-2, and exhausting through one (1) stack, identified as M-2.

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

A stucco production process, consisting of the following equipment: (continued)

(m) Stucco storage equipment, including one (1) #49 screw, and one (1) #47 screw, with a maximum capacity of seventy (70) tons per hour, and three stucco storage bins, known as #1, #2 and #3, each with a capacity of 175 tons, with particulate emissions controlled by one (1) baghouse, identified as MBH-24, and exhausting through one (1) stack, identified as M-23.

(n) Stucco storage equipment, including one (1) #1 elevator and one (1) #27 screw, with a maximum capacity of seventy (70) tons per hour, and three (3) stucco storage bins, known as #4, #5 and #6, each with a capacity of 175 tons, with particulate emissions controlled by one (1) baghouse, identified as MBH-23, and exhausting through one (1) stack, identified as M-23.

(o) One (1) stucco storage bin, with a maximum capacity of 50 tons, with particulate matter controlled by one (1) baghouse, identified as MBH-2, and exhausting through one (1) stack, identified as M-2.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Nonattainment Area Particulate Limitation [326 IAC 6.8]

Pursuant to 326 IAC 6.8-1-2 (formerly 326 IAC 6-1-2) (Nonattainment Area Particulate Limitations), the PM emissions from the stucco production process shall be limited as follows:

(a) PM emissions from kettle feed bins #1, #2 and #3 exhausting to stacks M-25, M-27 and M-28 shall each not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(b) PM emissions from calcining kettle #1 exhausting to stack M-22A shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(c) PM emissions from calcining kettle #1B exhausting to stack M-22B shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(d) PM emissions from calcining kettle #2 exhausting to stack M-16 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(e) PM emissions from the natural gas-fired burner for kettle #1 exhausting to stack M-22A shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(f) PM emissions from the natural gas-fired burners for kettle #2 exhausting to stack M-14 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(g) PM emissions from the natural gas-fired burner for kettle #3 exhausting to stack M-6 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(h) PM emissions from hot pit #3 exhausting to stack M-1 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(i) PM emissions from the stucco storage bin exhausting to stack M-2 shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

(j) PM emissions from the stucco storage bins #1 through #6, exhausting to stack M-23, shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

D.3.2 Lake County PM_{10} Emission Requirements [326 IAC 6.8-2-37]

Pursuant to 326 IAC 6.8-2-37 (formerly 326 IAC 6-1-10.1) (Lake County PM_{10} Emission Requirements), the PM_{10} emissions shall be limited as follows:

(a) The PM_{10} emissions from kettle #3 exhausting to stack M-1 shall not exceed 0.012 grains per

dry standard cubic foot and 3.210 pounds per hour.

(b) The PM_{10} emissions from the stucco handling system exhausting to stack M-2 shall not exceed 0.015 grains per dry standard cubic foot and 2.210 pounds per hour.

D.3.3 Emission Offset Minor PM Limit [326 IAC 2-3]

Pursuant to CP 089-8657-00333, issued on January 8, 1998, the PM emissions shall be limited as follows:

(a) PM emissions from kettle #2 exhausting to stack M-16 shall not exceed 0.010 grains per dry standard cubic foot.

(b) PM emissions from kettle feed bin #2 exhausting to stack M-27 shall not exceed 0.008 grains per dry standard cubic foot.

Compliance with these limits make 326 IAC 2-3 (Emission Offset) not applicable. Compliance with these limits also will satisfy the requirements of 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations) for these facilities.

D.3.4 Emission Offset Minor NO_X Limit [326 IAC 2-3]

Pursuant to CP-089-8657-00333, issued on January 8, 1998, natural gas throughput to the six (6) natural gas fired burners for calcining kettle #2 shall not exceed 338.4 million cubic feet per consecutive twelve (12) month period, including natural gas throughput to the wet and dry end seal natural gas burners, and the gauging water heater, which are found in Section D.4.

Compliance with this limit will assure that the NO_X emissions from the facilities permitted under CP-089-8657-00333, issued on January 8, 1998 shall remain less than twenty-five (25) tons per year and that the requirements of 326 IAC 2-3 (Emission Offset) are not applicable.

D.3.5 PSD and Emission Offset [326 IAC 2-2] [326 IAC 2-3]

The Permittee shall demonstrate that a significant emissions increase of any regulated pollutant will not occur as a result of the construction and operation of kettle #1B, as follows:

(a) Before beginning actual construction of the calcining kettle #1B, the Permittee shall document and maintain the following records:

(1) A description of the project;

(2) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project;

(3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

(i) Baseline actual emissions;

(ii) Projected actual emissions;

(iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) or 326 IAC 2-3-1(mm)(2)(A)(3); and

(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.

(b) The Permittee shall monitor the emissions of any regulated NSR pollutant that could increase as a result of the construction and operation of kettle #1B, and that is emitted by any existing

emissions unit identified in (a)(2) above; and

(c) The Permittee shall calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

D.3.6 New Source Performance Standard [326 IAC 12] [40 CFR 60, Subpart UUU]

Pursuant to 40 CFR 60, Subpart UUU (Calciners and Dryers in Mineral Industries), PM emissions from kettle #1 exhausting to stack M-22A, kettle #1B exhausting to stack M-22B, and kettle #2 exhausting to stack M-16, shall not exceed 0.092 grams per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)] and ten percent (10%) opacity.

D.3.7 New Source Performance Standard [326 IAC 12] [40 CFR 60, Subpart OOO]

Pursuant to 40 CFR 60, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), PM emissions from kettle feed bin #1, exhausting through stack M-25, and kettle feed bin #2, exhausting through stack M-27, as well as all stucco storage and handling equipment exhausting through stacks M-2 and M-23, shall not exceed 0.05 grams per dry standard cubic meter (g/dscm) and seven percent (7%) opacity.

D.3.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.3.9 Testing Requirements [326 IAC 2-7-6(1),(6)]

(a) To demonstrate compliance with 40 CFR 60, Subpart UUU (Calciners and Dryers in Mineral Industries), and Condition D.3.6, the Permittee shall perform compliance testing for PM and opacity from calcining kettle #1 exhausting through stack M-22A and calcining kettle #2, exhausting through stack M-16, within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The tests shall be performed in accordance with Section C - Performance Testing and 40 CFR 60.736.

(b) To demonstrate compliance with 40 CFR 60, Subpart UUU (Calciners and Dryers in Mineral Industries), and Condition D.3.6, the Permittee shall perform compliance testing for PM and opacity from calcining kettle #1B exhausting through stack M-22B, within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The tests shall be performed in accordance with Section C - Performance Testing and 40 CFR 60.736.

(c) To demonstrate compliance with 40 CFR 60, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), and Condition D.3.7, the Permittee shall perform compliance testing for PM and opacity from kettle feed bin #1, exhausting through stack M-25, and kettle feed bin #2, exhausting through stack M-27, and the stucco storage and handling equipment exhausting through stacks M-2 and M-23, within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The tests shall be performed in accordance with Section C - Performance Testing and 40 CFR 60.675.

(d) The Permittee is not required to test the remaining stucco production facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the limits specified in Conditions D.3.1 and D.3.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.3.10 Particulate Matter (PM)

The baghouses for PM control shall be in operation at all times when the associated facilities are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR Part 64]

D.3.11 Visible Emissions Notations

(a) Visible emission notations of the stack exhausts M-1, M-2, M-16, M-22A, M-22B, M-23, M-25, M-27 and M-28 shall be performed once per shift during normal daylight operations when exhausting directly to the atmosphere. 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.3.12 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the stucco production process, at least once per shift when the associated facilities are in operation when venting directly to the atmosphere.

(a) When for any one reading, the pressure drop across the baghouses MBH-1, MBH-2, MBH-16, MBH-22, MBH-22B, MBH-23, MBH-24, MBH-27 and MBH-28 is outside the normal range of 0.5 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

(b) When for any one reading, the pressure drop across the baghouses MBH-25 and MBH-26 is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.3.13 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the stucco production process. All defective bags shall be replaced.

D.3.14 Broken or Failed Bag Detection

In the event that bag failure has been observed.

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.15 Record Keeping Requirements

(a) To document compliance with Condition D.3.4, the Permittee shall maintain records of natural gas throughput to the six (6) natural gas fired burners for calcining kettle #2.

(b) To document compliance with Condition D.3.11, the Permittee shall maintain records of visible emission notations of the stack exhausts M-1, M-2, M-16, M-22A, M-22B, M-23, M-25, M-27 and M-28, once per shift.

(c) To document compliance with Condition D.3.12, the Permittee shall maintain the following:

(1) Records of the following operational parameters taken once per shift during normal operation when venting directly to the atmosphere:

(A) Inlet and outlet differential static pressure; and

(B) Cleaning cycle: frequency and differential pressure.

(2) Documentation of all response steps implemented, per event.

(3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer's specifications or its equivalent.

(7) Equipment "troubleshooting" contingency plan.

(8) Documentation of the dates vents are redirected.

(d) To document compliance with Condition D.3.13, the Permittee shall maintain records of the results of the inspections required under Condition D.3.13.

(e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.16 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.4 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or an equivalent, within thirty (30) days after the

end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).