



Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

September 3, 2004

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
www.in.gov/idem

TO: Interested Parties / Applicant

RE: US Gypsum Company / 089-19720-00333

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 9/16/03



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

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September 3, 2004

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

Re: **089-19720**  
First Administrative Amendment to  
**Part 70 089-7532-00333**

Dear Mr. King:

U.S. Gypsum Company was issued a permit on July 6, 1999, for a stationary gypsum wallboard and gypsum products manufacturing plant. A letter requesting a change was received on July 6, 2004.

The first requested change was for the removal of stack testing requirements for stacks M-2, M-8, M-16 and M-23. The rationale for this request was that there had been no physical changes to the processes associated with these stacks during the construction of the equipment permitted in Significant Source Modification No. 089-18553-00333, issued on April 27, 2004. The Part 70 permit is an overall plant operating permit that covers all processes at the source, not just those permitted in the recent Significant Source Modification.

The testing requirements in Section D.3 (Stucco Production) of the Part 70 permit for your source, were originally stipulated in construction permit 089-8657-00333, issued on January 8, 1998. These requirements were for calcining kettle #2 (Stack M-16) and kettle feed bin #2 (Stack M-8). When calcining kettle #1 and kettle feed bin #1 were permitted in Significant Source Modification No. 089-16064-00333, issued on March 4, 2003, the testing condition was reorganized to separate the testing required to meet NSPS Subpart UUU (calcining kettles) and NSPS Subpart OOO (kettle feed bins). In addition, a testing requirement was added for the stucco storage and handling (Stacks M-2 and M-23) to meet the requirements of NSPS Subpart OOO.

The only new testing is that required by Significant Source Modification No. 089-18553-00333, issued on April 27, 2004, which requires testing of calcining kettle #1 (Stack M-22) to meet the requirements of NSPS Subpart UUU, and kettle feed bin #1 (Stack M-25) to meet the requirements of NSPS Subpart UUU. No changes will be made to the testing requirements in the permit.

The second requested change was to change the operating range of the baghouse for kettle feed bin #1 (MBH-25) in Condition D.3.11(a), from a range of 0.5 to 6.0 inches of water, to 2.0 to 8.0 inches of water. This change reflects a change in specifications from the baghouse manufacturer. This baghouse will be moved to Condition D.3.11 (b).

The revised condition is 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:

#### D.3.11 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) Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouses MBH-1, MBH-2, MBH-16, MBH-22, MBH-23, **and** MBH-24 ~~and MBH-25~~, shall be maintained within the range of 0.5 and 6.0 inches of water, or a range established during the latest stack test.
- (b) Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouses MBH-8 **and** MBH-25 shall be maintained within the range of 2.0 and 8.0 inches of water, or a range established during the latest stack test.

Upon further review, the OAQ has decided to make the following changes to the Part 70 Operating Permit: The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language is **bolded**):

#### Change 1:

On April 15, 2004, the United States Environmental Protection Agency (U.S. EPA) named 23 Indiana counties and one partial county nonattainment for the new 8-hour ozone standard. The designations became effective on June 15, 2004. Lake County has been designated as nonattainment for the 8-hour ozone standard. The following has been added to A.1 General Information:

#### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary gypsum wallboard and gypsum products manufacturing plant.

Responsible Official: Jay L. King, Plant Manager  
Source Address: 301 Riley Road, East Chicago, Indiana 46312  
Mailing Address: 301 Riley Road, East Chicago, Indiana 46312  
SIC Code: 3275  
County Location: Lake  
County Status: Nonattainment for PM<sub>10</sub>, SO<sub>2</sub> and ozone **under 1-hr and 8-hr standards**  
Attainment area for all other criteria pollutants  
Source Status: Part 70 Permit Program  
Major Source, under PSD, Emission Offset Rules, **and non-attainment NSR**

#### Change 2:

Condition B.26 has been revised to include an updated telephone number and contact information. The revised condition is as follows:

#### B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 **4230** (ask for OAQ, ~~Technical Support and Modeling~~ **Billing, Licensing and Training** Section), to determine the appropriate permit fee.

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 Patrick Brennan, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 631-691-3395 or in Indiana at 800-451-6027, ask for extension 631-691-3395.

Sincerely,

Original Signed by  
Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

PTB/MES

Attachments

cc: File - Lake County  
U.S. EPA, Region V  
Lake County Health Department  
Northwest Regional Office  
Air Compliance Section Inspector - Richard Massoels  
Compliance Branch  
Administrative and Development Section  
Billing, Licensing and Training - Michele Boner



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## 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	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: July 6, 1999  Expiration Date: July 6, 2004

1<sup>st</sup> Significant Permit Modification No. 089-11767-00333      Issuance Date: November 13, 2002  
 2<sup>nd</sup> Significant Permit Modification No. 089-16805-00333      Issuance Date: March 14, 2003  
 3<sup>rd</sup> Significant Permit Modification No. 089-18554-00333      Issuance Date: May 12, 2004

First Administrative Amendment No.: AA 089-19720-00333	Sections Affected: A.1,B.26, D.3
Issued by: Original Signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: September 3, 2004

## 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 through A.3 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 2-7-4(c)] [326 IAC 2-7-5(15)]

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The Permittee owns and operates a stationary gypsum wallboard and gypsum products manufacturing plant.

Responsible Official: Jay L. King, Plant Manager  
Source Address: 301 Riley Road, East Chicago, Indiana 46312  
Mailing Address: 301 Riley Road, East Chicago, Indiana 46312  
SIC Code: 3275  
County Location: Lake  
County Status: Nonattainment for PM<sub>10</sub>, SO<sub>2</sub> and ozone under 1-hr and 8-hr standards  
Attainment area for all other criteria pollutants  
Source Status: Part 70 Permit Program  
Major Source, under PSD, Emission Offset Rules, and non-attainment NSR

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

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

Raw material handling and storage, consisting of the following equipment:

- (a) One (1) pneumatic rail car unloading facility, with a maximum throughput of 24,000 pounds per hour, used for limestone, hydrocal, and mica, with particulate matter emissions controlled by each individual baghouse identified as JBH-11, JBH-12 and JBH-13, and exhausting through each respective stack identified as J-11, J-12 and J-13 respectively.
- (b) One (1) pneumatic truck unloading facility, with a maximum throughput of 22,000 pounds per hour, used for perlite, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-16, and exhausting through one (1) stack, identified as J-16.
- (c) One (1) limestone storage silo, with a maximum capacity of 330 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-11, and exhausting through one (1) stack, identified as J-11.
- (d) One (1) hydrocal storage silo, with a maximum capacity of 140 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-12, and exhausting through one (1) stack, identified as J-12.
- (e) One (1) mica storage silo, with a maximum capacity of 60 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-13, and exhausting through one (1) stack, identified as J-13.
- (f) One (1) perlite storage silo, with a maximum capacity of 250 tons, with particulate matter emissions controlled by one (1) baghouse, identified as JBH-16, and exhausting through one (1) stack, identified as J-16.

submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) IDEM, OAQ, shall reserve the right to issue a new permit.

B.26 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (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.

Mineral Industries), and Condition D.3.5, the Permittee shall perform compliance testing for PM and opacity from calcining kettle #1 exhausting through stack M-22, 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 OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), and Condition D.3.6, 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-8, 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.
- (c) 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.3.9 Particulate Matter (PM)

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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.3.10 Visible Emissions Notations

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- (a) Visible emission notations of the stack exhausts M-1, M-2, M-8, M-16, M-22, M-23 and M-25 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.

#### D.3.11 Parametric Monitoring

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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) Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouses MBH-1, MBH-2, MBH-16, MBH-22, MBH-23 and MBH-24, shall be maintained within the range of 0.5 and 6.0 inches of

water, or a range established during the latest stack test.

- (b) Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across baghouses MBH-8 and MBH-25 shall be maintained within the range of 2.0 and 8.0 inches of water, or a range established during the latest stack test.

The Compliance Response Plan for these units shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

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.3.12 Baghouse Inspections

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

#### D.3.13 Broken or Failed Bag Detection

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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.3.14 Record Keeping Requirements

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- (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.3.10, the Permittee shall maintain records of visible emission notations of the stack exhausts M-1, M-2, M-8, M-16, M-22, M-23 and M-25 once per shift.
- (c) To document compliance with Condition D.3.11, 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