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

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

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

November 22, 2004

TO: Interested Parties / Applicant

RE: US Gypsum Company / 101-20308-00001

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

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November 22, 2004

Mr. John E. Jones
U.S. Gypsum Company
P.O. Box 1377
Shoals, Indiana 47581

Re: **101-20308**
Third Administrative Amendment to
Part 70 101-7691-00001

Dear Mr. Jones:

U.S. Gypsum Company was issued a permit on May 24, 1999 for a gypsum wall board manufacturing source. A letter requesting changes was received on October 27, 2004.

U.S. Gypsum Company is reassigning the existing permitted baghouse that is connected to the five (5) dry additive feeders, identified as emissions point 27, and exhausting to one (1) stack, identified as S-27 to the new wet gypsum accelerator air conveyor. The five (5) dry additive feeders will be connected to the existing permitted point 32 baghouse.

The installation of the wet gypsum accelerator land plaster air conveyor will not create any additional emissions above those already permitted.

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:

In Condition A.2 and Sections D.10 and D.11:

A.1 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

The following #2 wallboard production facilities:

(www) One (1) land plaster air conveyor receiver unit for wet gypsum accelerator, to be installed in 2004, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 27, and exhausting to one (1) stack identified as S-27.

(**xxx** ~~www~~) Five (5) dry additive feeders, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point **32** ~~27~~, and exhausting to one (1) stack, identified as S-**32** ~~27~~.

(**yyy** ~~xxx~~) One (1) gypsum panel slurry mixer, with a maximum throughput of 64.5 tons per hour, and exhausting inside the building.

(**zzz** ~~yyy~~) One (1) forming belt, with a maximum throughput of 72,000 square feet per hour, and exhausting inside the building.

(**aaaa** ~~zzz~~) One (1) natural gas or fuel oil-fired drying kiln, identified as emissions point 42, with a heat input capacity of 72.3 million Btu per hour, and exhausting to one (1) stack, identified as S-46. No. 2 fuel oil will also be used as a supplemental fuel.

(**bbbb** ~~aaaa~~) One (1) end saw, with a maximum throughput of 64.5 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 33, and exhausting to one (1) stack, identified as S-33. During backup situations, particulate matter emissions are controlled by one (1) baghouse, identified as emissions point 34, and exhausted to one (1) stack, identified as S-34.

The Dunnage machine facilities:

(**cccc** ~~bbbb~~) One (1) Dunnage machine with saws, with a maximum throughput of 55 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 50, and exhausting to (1) stack, identified as S-54.

The following wallboard waste reclamation facilities:

(**dddd** ~~cccc~~) A conveying system, consisting of belt and screw conveyors and bucket elevator, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or inside the building.

(**eeee** ~~dddd~~) One (1) waste wallboard shredder, with a maximum throughput of 20 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 50, and exhausting directly to the atmosphere.

(**ffff** ~~eeee~~) One (1) vibrating screens system, with a maximum throughput of 20 tons per hour, with particulate matter emissions controlled by partial enclosure, and exhausting inside the building.

(**gggg** ~~ffff~~) One (1) waste surge bin, with a maximum capacity of 20 tons, with particulate matter emissions controlled by filters, and exhausting inside the building.

(**hhhh** ~~gggg~~) One (1) synthetic gypsum and shredded wallboard storage bin, with a maximum capacity of 60 tons, with particulate matter emissions controlled by filters, and exhausting to inside the building.

(**iiii** ~~hhhh~~) One (1) natural gas or fuel oil-fired impact dryer mill, identified as the Williams Mill, with a maximum throughput of 40 tons per hour, with a heat input capacity of 40 million Btu per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 49, and exhausting to one (1) stack, identified as S-53.

SECTION D.10 FACILITY OPERATION CONDITIONS

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

The following #2 wallboard production facilities:

(uuu) A conveying system, consisting of screw and belt conveyors and bucket elevators, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 46, and exhausting to one (1) stack, identified as S-50. Some portions of the conveying system are controlled by partial or total enclosure and exhaust to associated processes or inside the building.

(vvv) One (1) stucco storage silo, with a maximum throughput of 39 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 32, and exhausting to one (1) stack, identified as S-32.

(www) One (1) land plaster air conveyor receiver unit for wet gypsum accelerator, to be installed in 2004, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 27, and exhausting to one (1) stack identified as S-27.

(**xxx** ~~www~~) Five (5) dry additive feeders, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point **32** ~~27~~, and exhausting to one (1) stack, identified as S-**32** ~~27~~.

(**yyy** ~~xxx~~) One (1) gypsum panel slurry mixer, with a maximum throughput of 64.5 tons per hour, and exhausting inside the building.

(**zzz** ~~yyy~~) One (1) forming belt, with a maximum throughput of 72,000 square feet per hour, and exhausting inside the building.

(**aaaa** ~~zzz~~) One (1) natural gas or fuel oil-fired drying kiln, identified as emissions point 42, with a heat input capacity of 72.3 million Btu per hour, and exhausting to one (1) stack, identified as S-46. No. 2 fuel oil will also be used as a supplemental fuel.

(**bbbb** ~~aaaa~~) One (1) end saw, with a maximum throughput of 64.5 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 33, and exhausting to one (1) stack, identified as S-33. During backup situations, particulate matter emissions are controlled by one (1) baghouse, identified as emissions point 34, and exhausted to one (1) stack, identified as S-34.

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

D.10.1 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

(a) The particulate matter emissions from the #2 wallboard production facilities shall be limited as follows:

(1) PM emissions from the #2 board silo **and the five (5) dry additive feeders** (S-32) shall not exceed 0.35 pounds per hour.

(2) PM emissions from the ~~dry additive feeders~~ **land plaster air conveyor receiver unit for wet gypsum accelerator** (S-27) shall not exceed 0.58 **pounds per hour.**

(3) PM emissions from the end saws (S-34) shall not exceed 0.93 pounds per hour.

Compliance with these limits make 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 not applicable. Compliance with these limitations shall also satisfy the requirements of 326 IAC 6-3.

SECTION D.11 FACILITY OPERATION CONDITIONS

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

The Dunnage machine facilities:

(cccc ~~bbbb~~) One (1) Dunnage machine with saws, with a maximum throughput of 55 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 50, and exhausting to (1) stack, identified as S-54.

The following wallboard waste reclamation facilities:

(dddd ~~cccc~~) A conveying system, consisting of belt and screw conveyors and bucket elevator, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or inside the building.

(eeee ~~dddd~~) One (1) waste wallboard shredder, with a maximum throughput of 20 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 50, and exhausting directly to the atmosphere.

(ffff ~~eeee~~) One (1) vibrating screens system, with a maximum throughput of 20 tons per hour, with particulate matter emissions controlled by partial enclosure, and exhausting inside the building.

(gggg ~~ffff~~) One (1) waste surge bin, with a maximum capacity of 20 tons, with particulate matter emissions controlled by filters, and exhausting inside the building.

(hhhh ~~gggg~~) One (1) synthetic gypsum and shredded wallboard storage bin, with a maximum capacity of 60 tons, with particulate matter emissions controlled by filters, and exhausting to inside the building.

(iiii ~~hhhh~~) One (1) natural gas or fuel oil-fired impact dryer mill, identified as the Williams Mill, with a maximum throughput of 40 tons per hour, with a heat input capacity of 40 million Btu per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 49, and exhausting to one (1) stack, identified as S-53.

In addition, effective January 1, 2001, the name of the Office of Air Management (OAM) has been changed to the Office of Air Quality (OAQ). Therefore, this change has been implemented on the cover page.

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 Mark L. Kramer, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 631-691-3395 ext. 12 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

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

MLK/MES
Attachments
cc: File - Martin County
U.S. EPA, Region V
Martin County Health Department
Southwest Regional Office
Air Compliance Section Inspector - Gene Kelso
Compliance Branch
Administrative and Development Section
Technical Support and Modeling - Michele Boner

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PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

United States Gypsum Company
State Road 650
Shoals, Indiana 47581

(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.: T101-7691-00001	
Original Signed by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: May 24, 1999 Expiration Date: May 24, 2004

First Administrative Amendment 101-11293, issued on January 24, 2000
Second Administrative Amendment 101-11873, issued on March 27, 2000
First Significant Permit Modification 101-14797, issued on December 17, 2001
First Reopening 101-13422, issued on March 21, 2002
Second Significant Permit Modification 101-18106, issued on March 9, 2004

Third Administrative Amendment 101-20308	Pages Affected: 14, 15, 72, 72a and 77
Issued by: Original Signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: November 22, 2004

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Compliance Determination Requirements

(rrr) One (1) natural gas or fuel oil-fired drying kiln, identified as emissions point 41, with a heat input capacity of 46.1 million Btu per hour, and exhausting to one (1) stack, identified as S-45. No. 2 fuel oil will also be used as a supplemental fuel.

(sss) One (1) end saw, with a maximum throughput of 46.5 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 33, and exhausting to one (1) stack, identified as S-33. During backup situations, particulate matter emissions are controlled by one (1) baghouse, identified as emissions point 34, and exhausted to one (1) stack, identified as S-34.

(ttt) Two (2) gypsum lay-in panel (GLIP) saws, with a maximum throughput of 28,800 square feet per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 55, and exhausting to one (1) stack, identified as S-59.

The following #2 wallboard production facilities:

(uuu) A conveying system, consisting of screw and belt conveyors and bucket elevators, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 46, and exhausting to one (1) stack, identified as S-50. Some portions of the conveying system are controlled by partial or total enclosure and exhaust to associated processes or inside the building.

(vvv) One (1) stucco storage silo, with a maximum throughput of 39 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 32, and exhausting to one (1) stack, identified as S-32.

(www) One (1) land plaster air conveyor receiver unit for wet gypsum accelerator, to be installed in 2004, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 27, and exhausting to one (1) stack identified as S-27.

(xxx) Five (5) dry additive feeders, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 32, and exhausting to one (1) stack, identified as S-32.

(yyy) One (1) gypsum panel slurry mixer, with a maximum throughput of 64.5 tons per hour, and exhausting inside the building.

(zzz) One (1) forming belt, with a maximum throughput of 72,000 square feet per hour, and exhausting inside the building.

(aaaa) One (1) natural gas or fuel oil-fired drying kiln, identified as emissions point 42, with a heat input capacity of 72.3 million Btu per hour, and exhausting to one (1) stack, identified as S-46. No. 2 fuel oil will also be used as a supplemental fuel.

(bbbb) One (1) end saw, with a maximum throughput of 64.5 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 33, and exhausting to one (1) stack, identified as S-33. During backup situations, particulate matter emissions are controlled by one (1) baghouse, identified as emissions point 34, and exhausted to one (1) stack, identified as S-34.

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(cccc) One (1) Dunnage machine with saws, with a maximum throughput of 55 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 50, and exhausting to (1) stack, identified as S-54.

The following wallboard waste reclamation facilities:

(dddd) A conveying system, consisting of belt and screw conveyors and bucket elevator, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or inside the building.

(eeee) One (1) waste wallboard shredder, with a maximum throughput of 20 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 50, and exhausting directly to the atmosphere.

(ffff) One (1) vibrating screens system, with a maximum throughput of 20 tons per hour, with particulate matter emissions controlled by partial enclosure, and exhausting inside the building.

(gggg) One (1) waste surge bin, with a maximum capacity of 20 tons, with particulate matter emissions controlled by filters, and exhausting inside the building.

(hhhh) One (1) synthetic gypsum and shredded wallboard storage bin, with a maximum capacity of 60 tons, with particulate matter emissions controlled by filters, and exhausting to inside the building.

(iiii) One (1) natural gas or fuel oil-fired impact dryer mill, identified as the Williams Mill, with a maximum throughput of 40 tons per hour, with a heat input capacity of 40 million Btu per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 49, and exhausting to one (1) stack, identified as S-53.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

SECTION D.10 FACILITY OPERATION CONDITIONS

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

The following #2 wallboard production facilities:

(uuu) A conveying system, consisting of screw and belt conveyors and bucket elevators, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 46, and exhausting to one (1) stack, identified as S-50. Some portions of the conveying system are controlled by partial or total enclosure and exhaust to associated processes or inside the building.

(vvv) One (1) stucco storage silo, with a maximum throughput of 39 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 32, and exhausting to one (1) stack, identified as S-32.

(www) One (1) land plaster air conveyor receiver unit for wet gypsum accelerator, to be installed in 2004, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 27, and exhausting to one (1) stack identified as S-27.

(xxx) Five (5) dry additive feeders, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 32, and exhausting to one (1) stack, identified as S-32.

(yyy) One (1) gypsum panel slurry mixer, with a maximum throughput of 64.5 tons per hour, and exhausting inside the building.

(zzz) One (1) forming belt, with a maximum throughput of 72,000 square feet per hour, and exhausting inside the building.

(aaaa) One (1) natural gas or fuel oil-fired drying kiln, identified as emissions point 42, with a heat input capacity of 72.3 million Btu per hour, and exhausting to one (1) stack, identified as S-46. No. 2 fuel oil will also be used as a supplemental fuel.

(bbbb) One (1) end saw, with a maximum throughput of 64.5 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 33, and exhausting to one (1) stack, identified as S-33. During backup situations, particulate matter emissions are controlled by one (1) baghouse, identified as emissions point 34, and exhausted to one (1) stack, identified as S-34.

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

D.10.1 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

(a) The particulate matter emissions from the #2 wallboard production facilities shall be limited as follows:

(1) PM emissions from the #2 board silo and the five (5) dry additive feeders (S-32) shall not exceed 0.35 pounds per hour.

(2) PM emissions from the land plaster air conveyor receiver unit for wet gypsum accelerator (S-27) shall not exceed 0.58 pounds per hour.

(3) PM emissions from the end saws (S-34) shall not exceed 0.93 pounds per hour.

Compliance with these limits make 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 not applicable. Compliance with these limitations shall also satisfy the requirements of 326 IAC 6-3.

SECTION D.11 FACILITY OPERATION CONDITIONS

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

The Dunnage machine facilities:

(cccc) One (1) Dunnage machine with saws, with a maximum throughput of 55 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 50, and exhausting to (1) stack, identified as S-54.

The following wallboard waste reclamation facilities:

(dddd) A conveying system, consisting of belt and screw conveyors and bucket elevator, with particulate matter emissions controlled by partial or total enclosure, and exhausting to associated processes or inside the building.

(eeee) One (1) waste wallboard shredder, with a maximum throughput of 20 tons per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 50, and exhausting directly to the atmosphere.

(ffff) One (1) vibrating screens system, with a maximum throughput of 20 tons per hour, with particulate matter emissions controlled by partial enclosure, and exhausting inside the building.

(gggg) One (1) waste surge bin, with a maximum capacity of 20 tons, with particulate matter emissions controlled by filters, and exhausting inside the building.

(hhhh) One (1) synthetic gypsum and shredded wallboard storage bin, with a maximum capacity of 60 tons, with particulate matter emissions controlled by filters, and exhausting to inside the building.

(iiii) One (1) natural gas or fuel oil-fired impact dryer mill, identified as the Williams Mill, with a maximum throughput of 40 tons per hour, with a heat input capacity of 40 million Btu per hour, with particulate matter emissions controlled by one (1) baghouse, identified as emissions point 49, and exhausting to one (1) stack, identified as S-53.

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

D.11.1 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

(a) The particulate matter emissions from the Dunnage machine and waste wallboard reclamation facilities shall be limited as follows:

(1) PM emissions from the Dunnage machine (S-54) shall not exceed 1.87 pounds per hour.

(2) PM emissions from the Williams mill (S-53) shall not exceed 9.35 pounds per hour.

Compliance with these limits make 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 not applicable. Compliance with these limitations shall also satisfy the requirements of 326 IAC 6-3.