



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: September 12, 2008

RE: Gartland Foundry / 167-26842I-00007

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

Notice of Decision: Approval - Effective Immediately

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 IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require 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 of 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.dot12/03/07



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September 12, 2008

Mr. Tom Atkins, Plant Engineer
Gartland Foundry Company
330 Grant Street
Terre Haute, Indiana 47802

RE: Interim Significant Source Modification
167-26842I-00007

Dear Mr. Atkins:

On August 29, 2008, the Office of Air Quality (OAQ) received an interim significant source modification petition from Gartland Foundry Company, located at 330 Grant Street, Terre Haute, Indiana 47802. Based on the data and information submitted in the petition and the provisions in 326 IAC 2-13-1, this interim significant source modification petition is hereby approved for the following:

Proposed Emission Units and Pollution Control Equipment:

- (a) One (1) Sinto FBox mold machine, approved for construction in 2008, identified as EU531, with a maximum capacity of 26.4 tons of sand molds per hour, with uncontrolled emissions, exhausting indoors.
- (b) One (1) Sinto pouring/cooling process, approved for construction in 2008, identified as EU560, with a maximum capacity of 6 tons of metal per hour, with uncontrolled emissions, exhausting indoors.
- (c) Two (2) Snag grinders approved for construction in 2008, each with a maximum capacity of 2 tons per hour of metal castings, using Hosakawa baghouse (BH5) for control and exhausting to stack SC-5. These new units will replace two existing units. Revisions to the emission unit description in Section A.2 of the Part 70 permit due to this change follows:

Four (4) Snag Grinders, identified as EU640 (~~2 constructed in 1975, 1 in 1985, and 1 in 1991~~), **one approved for construction in 1985, one approved for construction in 1991, and two approved for construction in 2008 to replace two constructed in 1975**, each with a maximum capacity of 2 tons per hour of metal castings, using Hosakawa baghouse (BH5) for control and exhausting to stack SC-5.
- (d) One (1) holding furnace, approved for construction in 2008, identified as EU160, with uncontrolled emissions, exhausting indoors.

Detailed conditions will be specified in the final significant source modification no. 167-26842-00007. This interim significant source modification expires on the effective date of the final significant source modification.

Mr. Tom Atkins, Plant Engineer
Gartland Foundry Company
Interim SSM 167-268421-00007
Page 2

This interim significant source modification may be revoked after its effective date upon a written finding by the OAQ that any of the reasons for denial in 326 IAC 2-13-1(h) exist or if the final significant source modification is denied. The facilities subject to this approval may not operate until the final significant permit modification is issued by OAQ.

The interim significant source modification petition is federally enforceable.

If you have any question regarding this interim minor source modification petition, please contact David J. Matousek of my staff at (317) 232-8253, or at 1-800-451-6027 (ask for extension 2-8253).

Sincerely,

Original signed by:

Tripurari P. Sinha, Ph.D., Section Chief
Permits Branch
Office of Air Quality

DJM/djm
Enclosure: Interim Evaluation

CC: File - Vigo County
Vigo County Health Department
Air Compliance Section

**Indiana Department of Environmental Management
Office of Air Quality**

Interim Petition Checklist

Instructions: (a) Please answer yes or no.
(b) Enclose this checklist with the completed interim petition package.

Company Name: Gartland Foundry Company

Location: 330 Grant Street, Terre Haute, Indiana

| | | |
|-----|-----|--|
| Yes | 1. | Is the written interim petition prepared? |
| Yes | 2. | Is the written petition signed and dated? |
| Yes | 3. | Is the public notice drafted? |
| Yes | 4. | Is the \$500 filing and review fee enclosed? |
| Yes | 5. | Is the account number written on the check or money order? |
| Yes | 6. | Is the Affidavit of Construction signed, dated, and notarized? |
| Yes | 7. | Is the proposed modification/revision described in detail? |
| Yes | 8. | Is the proposed modification/revision a modification or addition to an existing source? |
| Yes | 9. | Is the proposed modification/revision located in an attainment area for all the criteria pollutants? |
| No | 10. | Is the proposed modification/revision located in a nonattainment area? If yes, answer No. 11. |
| N/A | 11. | Is the pollutant, which the nonattainment designation is based on, going to be emitted in this proposed modification/revision? |
| Yes | 12. | Are potential emissions calculated? |
| Yes | 13. | Is federal enforceability consent specifically indicated? |
| Yes | 14. | Are specific conditions, limitations, and/or restrictions included that preclude applicability of PSD? |
| N/A | 15. | Are specific conditions, limitations, and/or restrictions included that preclude applicability of NSPS? |
| N/A | 16. | Are specific conditions, limitations, and/or restrictions included that preclude applicability of NESHAP? |
| Yes | 17. | Are specific conditions, limitations, and/or restrictions included that assure compliance with all applicable state air pollution rules? |
| Yes | 18. | Has a regular modification/revision permit application been submitted to OAQ? |
| N/A | 19. | Is a regular modification/revision permit application going to be submitted to OAQ? If yes, indicate approximate date of submission: |
| No | 20. | Has the proposed modification/revision commenced prior to the submission of the interim permit petition? |
| Yes | 21. | The interim petition comment period has been decided to be: 14 calendar days |

Additional Comments:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

PETITION FOR INTERIM PERMIT

Source Name: Gartland Foundry Company
Source Address: 330 Grant Street, Terre Haute, Indiana
Mailing Address: 330 Grant Street, Terre Haute, Indiana 47802
SIC Code: 3321

Description of The Operation or Equipment:

The equipment proposed to be installed for Gartland Foundry includes the following:

- One (1) new Sinto mold machine, identified as EU531, with a maximum capacity of 22.6 tons of sand molds per hour, with emissions uncontrolled and exhausting inside the building. The new Sinto mold machine will replace the existing B&P auto mold machine currently identified as EU531.
- One (1) new Sinto pouring/cooling line, identified as EU560, with a maximum capacity of 6 tons of metal per hour, with emissions uncontrolled and exhausting inside the building. The new Sinto pouring/cooling line will replace the Beardsley pouring/cooling line.
- Two (2) new grinders, each with a maximum capacity of 2 tons per hour of metal castings, with emissions controlled by existing baghouse BH5. The new grinders will replace two (2) of four (4) existing grinders, collectively identified as EU640.
- One (1) holding furnace identified as EU160. The furnace is not designed to be capable of melting metal for long periods of time. The furnace will be limited to 1,000 tons of metal per year.

Potential To Emit:

The proposed limits for the new emission units are included in Table 1 on the following page. Detailed emission calculations are included in Table 2 on the following pages.

TABLE 1
Proposed Limits for New Emission Units

| Existing Emission Unit | Throughput Limit (tons/yr) | PM Limit | PM10 Limit | VOC Limit | CO Limit |
|--------------------------|----------------------------------|--|--|--------------------|--------------------|
| Holding Furnace EU160 | 1,000 tons metal melted per year | 0.90 lb/ton metal | 0.86 lb/ton metal | N/A | N/A |
| Sinto Mold Machine EU531 | none | 0.0162 lb/ton sand | 0.0072 lb/ton sand | N/A | N/A |
| Grinders EU640 | 13,800 tons metal per year | Included in limit on Hosakawa baghouse | Included in limit on Hosakawa baghouse | N/A | N/A |
| Pouring & Cooling EU560 | 13,800 tons metal per year | 0.8781 lb/ton metal | 0.2676 lb/ton metal | 1.475 lb/ton metal | 3.786 lb/ton metal |

Table 2: New Unit Emission Calculations

| Emission Unit | Max Capacity (Tons/Hr) | Throughput Limit (Tons/Year) | Pollutant | Emission Factor (lb/ton) | Source of Emission Factor | Overall Efficiency % | Potential Emissions | | | | | | After Controls | | | | |
|-----------------------------|------------------------|------------------------------|-----------|--------------------------|---------------------------|----------------------|---------------------|------------------|-----------------|-----------------|-----------------|----------------|----------------|--|------|-----------|------|
| | | | | | | | PM (Tons/Year) | PM10 (Tons/Year) | SOx (Tons/Year) | NOx (Tons/Year) | VOC (Tons/Year) | CO (Tons/Year) | PB (Tons/Year) | | | | |
| Holding Furnace 3-04-003-03 | | 1,000 metal | PM | 0.90 | AP-42 | | 0.45 | 0.43 | | | | | | | | | |
| | | | PM10 | 0.86 | AP-42 | | | | | | | | | | | | |
| | | | Pb | 0.0455 | AP-42 | | | | | | | | | | | | 0.02 |
| Mold Making EU531 | 22.6 sand | none | PM | 0.0162 | | | 1.60 | 0.71 | | | | | | | | | |
| | | | PM10 | 0.0072 | | | | | | | | | | | | | |
| Grinders 3-04-003-60 | 9 | 13,800 metal | PM | 0.010 | AP-42 | 99.00% | 0.004 | 0.002 | | | | | | | | 0.0000001 | |
| | | | PM10 | 0.0045 | AP-42 | | | | | | | | | | | | |
| | | | Pb | 2.00E-07 | Lab Data | | | | | | | | | | | | |
| 560-Pouring and Cooling | 6 metal | 13,800 | PM | 0.8781 | Stack Test | 0.00% | 6.06 | 1.85 | 0.14 | 0.07 | 12.03 | 26.12 | | | | 0.00 | |
| | | | PM10 | 0.2676 | Stack Test | | | | | | | | | | | | |
| | | | SOx | 0.02 | AP-42 | | | | | | | | | | | | |
| | | | NOx | 0.01 | AP-42 | | | | | | | | | | | | |
| | | | VOC | 1.743 | Stack Test | | | | | | | | | | | | |
| | | | CO | 3.786 | Stack Test | | | | | | | | | | | | |
| | | | Pb | 0.00007 | Lab Data | | | | | | | | | | | | |
| Total for New Units | | | | | | | 8.12 | 2.99 | 0.14 | 0.07 | 12.03 | 26.12 | | | 0.02 | | |

Total for New Units

June 2008 Stack Test Results for pouring & cooling:

PM: 0.5854 lb/ton metal plus 50% safety factor = 0.8781

PM10: 0.1784 lb/ton metal plus 50% safety factor = 0.2676

VOC: 1.341 lb/ton metal plus 30% safety factor = 1.7433

CO: 3.442 lb/ton metal plus 10% safety factor = 3.7862

June 2008 Stack Test Results for mold making:

PM: 0.0108 lb/ton sand plus 50% safety factor = 0.0162

PM10: 0.0048 lb/ton sand plus 50% safety factor = 0.0072

PSD Requirements:

Please refer to the attached calculations for detailed information. The following throughput limits will be required for the project to be considered a minor modification under PSD:

- The holding furnace EU160 will be limited to 1,000 tons of metal per year.
- The emissions from the holding furnace EU160 will be limited to 0.90 pounds of PM per ton of metal melted.
- The emissions from the holding furnace EU160 will be limited to 0.86 pounds of PM10 per ton of metal melted.
- The Sinto mold machine EU531 will be limited to 0.0162 pounds of PM per ton of sand.
- The Sinto mold machine EU531 will be limited to 0.0072 pounds of PM10 per ton of sand.
- The grinders EU640 will be limited to 78,840 tons of metal per year.
- The Sinto pouring and cooling EU560 will be limited to 13,800 tons of metal per year.
- The Sinto pouring and cooling EU560 will be limited to 0.8781 pounds of PM per ton of metal.
- The Sinto pouring and cooling EU560 will be limited to 0.2676 pounds of PM10 per ton of metal.
- The Sinto pouring and cooling EU560 will be limited to 1.743 pounds of VOC per ton of metal.
- The Sinto pouring and cooling EU560 will be limited to 3.786 pounds of CO per ton of metal.

NSPS Requirements:

There are no NSPS rules applicable to this operation or equipment.

NESHAP Requirements:

There are no NESHAP rules applicable to this operation or equipment.

State Rules & Requirements:

A summary of applicable state rules & requirements is provided below. It should be noted that additional requirements are included in Attachment F, Proposed Permit Conditions.

326 IAC 6.5-1-2 (Particulate Limitations)

The new mold machine, new Sinto pouring/cooling process, new holding furnace, and new grinders are each subject to the requirements of 326 IAC 6.5-1-2 because they are located at a source in Vigo County that has actual emissions of greater than 10 tons per year of particulate matter. The furnace will comply with the applicable PM limit of 0.07 gr/dscf, and the other new units will comply with the applicable PM limits of 0.03 gr/dscf.

326 IAC 8-1-6 (BACT)

The new mold machine is not subject to the requirements of 326 IAC 8-1-6 because the potential VOC emissions are less than 25 tons per year.

The new Sinto pouring/cooling process is not subject to the requirements of 326 IAC 8-1-6 because the potential to emit VOC is limited to less than 25 tons per year. This is accomplished by way of a metal throughput limit of 13,800 tons per year and a VOC emission limit of 1.743 lb/ton metal. Therefore, the requirements of 326 IAC 8-1-6 (BACT) will not apply to the new pouring and cooling process.

326 IAC 2-2 (PSD)

The modification is not subject to the requirements of 326 IAC 2-2. The criteria pollutant emissions from all existing units are limited to less than 100 tons per year. The applicant proposes to limit criteria pollutant emissions from all of the new units to less than 100 tons per year. As a result, construction of the new units will qualify as a minor modification to a minor source, and will not be subject to the requirements of PSD. After this proposed modification, the source will become an existing major source under PSD.

Federal Enforceability:

The company consents to the federal enforceability of this interim petition.

Signature: William Grimes

Printed Name: William Grimes

Title or Position: President

Phone No.: (812) 232-0226

Date: 8/28/08

Affidavit of Construction

I, William Grimes, being duly sworn upon my oath, depose and say:

(Name of the Authorized Representative)

1. I live in Vigo County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of President for Gartland Foundry Company.
(Title) (Company Name)
3. By virtue of my position with Gartland Foundry Company, I have personal
(Company Name) knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of Gartland Foundry Company.
(Company Name)
4. I, the undersigned, have submitted an interim permit to the Office of Air Quality for the construction of one (1) new Sinto mold machine, one (1) new Sinto pouring/cooling line, two (2) new grinders, and one (1) holding furnace.
5. Gartland Foundry Company recognizes the following risks:
(Company Name)
 - (a) own financial risk, (b) that IDEM may require additional or different control technology for the final approval, (c) that IDEM may deny issuance of the final approval, and
 - (d) any additional air permitting requirements.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature: *William Grimes*

Printed Name: William Grimes

Phone No.: (812) 232-0226

Date: 8/28/08

STATE OF INDIANA)

COUNTY OF VIGO)

Subscribed and sworn to me, a notary public in and for VIGO County and

State of Indiana on this 28th day of August, 2008.

My Commission expires: August 31, 2009

Signature: *Linda Meneghini*

Printed Name: Linda Meneghini

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NOTICE OF 14-DAY PERIOD FOR PUBLIC COMMENT

proposed Approval of Interim Permit for Gartland Foundry Company In Vigo County

Notice is hereby given that the above company located at 330 Grant Street, Terre Haute, Indiana, has made application to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for an interim permit to construct one new Sinto mold machine, one new Sinto pouring/cooling line, two new grinders with an existing baghouse used as air pollution control, and one holding furnace. The potential pollutant emissions from the new equipment will be 8.12 tons per year of particulate matter (PM), 2.99 tons per year of particulate matter smaller than 10 microns in diameter (PM10), 0.14 tons per year of sulfur oxides (SOx), 0.07 tons per year of nitrogen oxides (NOx), 12.03 tons per year of volatile organic compounds (VOCs), 26.12 tons per year of carbon monoxide (CO), and 0.02 tons per year of lead (Pb). The throughputs of the equipment will be limited to 1,000 tons per year of metal for the holding furnace, 78,840 tons per year of metal for the grinders, and 13,800 tons per year for the Sinto pouring /cooling line.

The company has submitted an application for the Part 70 Permit. The OAQ shall review the application in accordance with the Permit Review Rules. Operation of the source cannot commence until a valid operating permit is issued. The construction of the proposed project is entirely at the applicant's own risk.

Notice is hereby given that there will be a period of 14 days from the date of publication of this notice during which any interested person may comment on why this interim permit should or should not be issued. Appropriate comments should be related to air quality issues, interpretation of the applicable state and federal rules, calculations made, technical issues, or the effect that the operation of the facility would have on any aggrieved individuals. A copy of the application and staff review is available for examination at the Vigo County Public Library, One Library Square, Terre Haute, Indiana. All comments, along with supporting documentation, should be submitted in writing to the IDEM, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana 46206-6015.

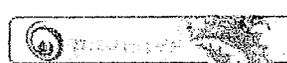
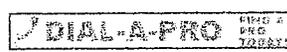
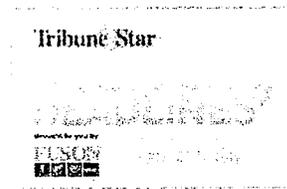
Persons not wishing to comment at this time, but wishing to receive notice of future proceedings conducted related to this action, must submit a written request to the Office of Air Quality (OAQ), at the above address. All interested parties of record will receive a notice of the decision on this matter and will then have 15 days after receipt of the Notice of Decision to file a petition for administrative review. Procedures for filing such a petition will be enclosed with the Notice.

Questions should be directed to OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or at 317/233-2882.

Tom Atkins
Gartland Foundry Company
03106746 T/S Aug 26, 2008

12518022

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