



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
MC 61-53
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: February 6, 2008
RE: Crosbie Foundry Company, Inc. / 039-25915-00202
FROM: Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision – Approval

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

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

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

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

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

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

Enclosures
FNPER-AM.dot12/3/07



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

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MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
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February 6, 2008

Mr. John Crosbie
Crosbie Foundry Company, Inc.
1600 Mishawaka Street
Elkhart, Indiana 46514

Re: 039-25915-00202
First Notice-Only Change to
M039-23278-00202

Dear Mr. Crosbie:

Crosbie Foundry Company, Inc. was issued a Minor Source Operating Permit (MSOP) Renewal No. M039-23278-00202 on September 12, 2007, for a stationary bronze, aluminum, and brass foundry located at 1600 Mishawaka Street, Elkhart, Indiana 46514. On January 17, 2008, the Office of Air Quality (OAQ) received an application from the source requesting that the MSOP Renewal permit term be extended to ten (10) years. On December 16, 2007, rule revisions to 326 IAC 2-1.1-9.5 and 326 IAC 2-6.1-7 were finalized allowing for ten (10) year permit terms on MSOP renewals. This change to the permit is considered a notice-only change pursuant to 326 IAC 2-6.1-6(d)(6), since it incorporates newly applicable requirements as a result of a change in applicability. Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby revised as follows with the deleted language as ~~strikeouts~~ and new language **bolded**.

(a) The expiration date on the cover page has been extended by five (5) years as follows.

Issuance Date: September 12, 2007
Expiration Date: September 12, ~~2012~~ **2017**

(b) Condition B.2 has been revised to reflect the ten (10) year permit term.

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

(a) This permit, MSOP 039-23278-00202, is issued for a fixed term of ~~five (5)~~ **ten (10)** years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(c) Section A.1 is revised to indicate that Elkhart County is now in attainment for the 8-hour ozone standard. Section A.1 is updated as follows:

Source Location Status: ~~Nonattainment for the 8-hour ozone standard~~
Attainment for all other criteria pollutants
Source Status: Minor Source Operating Permit Program
Minor Source, under PSD ~~and Emission Offset~~ Rules

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised 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 Nathan C. Bell, of my staff, at 317-234-5372 or 1-800-451-6027, and ask for extension 4-5372.

Sincerely,

Original document signed by

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit
IC/ncb

cc: File - Elkhart County
Elkhart County Health Department
U.S. EPA, Region V
Air Compliance Section
IDEM Northern Regional Office
Compliance Data Section
Technical Support and Modeling
Permits Administrative and Development
Billing, Licensing and Training Section



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Minor Source Operating Permit Renewal OFFICE OF AIR QUALITY

Crosbie Foundry Company, Inc.
1600 Mishawaka Street
Elkhart, Indiana 46514

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

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

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

Operation Permit No. MSOP 039-23278-00202	
Original signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: September 12, 2007 Expiration Date: September 12, 2017

First Notice-Only Change No. 039-25915-00202	
Issued by: <i>Original document signed by</i> Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: February 6, 2008 Expiration Date: September 12, 2017

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a bronze, aluminum, and brass foundry.

Source Address:	1600 Mishawaka Street, Elkhart, Indiana 46514
Mailing Address:	1600 Mishawaka Street, Elkhart, Indiana 46514
General Source Phone Number:	574-262-1502
SIC Code:	3369
County Location:	Elkhart
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) One (1) bronze castings process, maximum throughput: 320 pounds (0.160 tons) of bronze per hour, consisting of the following equipment:
 - (1) Two (2) natural gas-fired crucible pot furnaces, identified as CF-16 and CF-17, constructed in 1986 and 1987, respectively, equipped with two (2) baghouses, identified as CB-4 and CB-5, exhausting to Stacks C-3 and C-4, heat input capacity: 0.950 million British thermal units per hour, each.
 - (2) One (1) barrel shot blast, identified as CF-24, constructed in 1981, equipped with a baghouse, identified as CB-8, exhausting to Stack V-8.
 - (3) Six (6) polish lathes, identified as CF-30, 31, 33, 34, 36 and 37, all installed in 1960 and equipped with a cyclone, identified as CC-1, connected in series to two (2) baghouses, identified as CB-1 and CB-2, exhausting to Stacks C-6A and C-6B.
 - (4) Two (2) grinding lathes, identified as CF-32 and CF-35, all installed in 1960 and equipped with a cyclone, identified as CC-1, connected in series to two (2) baghouses, identified as CB-1 and CB-2, exhausting to Stacks C-6A and C-6B.
 - (5) One (1) pouring and cooling line, identified as CF-PC1, equipped with two (2) baghouses, identified as CB-4 and CB-5, exhausting to Stacks C-3 and C-4.
- (b) One (1) aluminum and brass castings process, with a maximum throughput of 540 pounds (0.270 tons) of aluminum and 1,000 pounds (0.500 tons) of brass per hour, consisting of the following equipment:
 - (1) Two (2) electric induction furnaces, identified as CF-18 and CF-19, constructed in 1995, equipped with two (2) baghouses, identified as CB-4 and CB-5, exhausting to Stacks C-3 and C-4.

- (2) Three (3) grind lathes, identified as CF-38 through CF-40, installed in 1985, and one (1) sand blaster, identified as CF-27, constructed in 1999, all equipped with a cyclone, identified as CC-5, exhausting to Stack C-7.
 - (3) One (1) cabinet shot blaster, identified as CF-25, constructed in 1995, and one (1) polisher, identified as CF-29, equipped with a cyclone, identified as CC-2, connected in series to a baghouse, identified as CB-3, exhausting to Stack C-7.
 - (4) One (1) belted shot blast, identified as CF-26, installed in 1995, equipped with a baghouse, identified as CB-7, exhausted to the general ventilation.
 - (5) One (1) abrasive cut off saw, identified as CF-28, constructed in 1968, equipped with a cyclone, identified as CC-3, connected in series to a baghouse, identified as CB-6, exhausting to Stack C-8.
 - (6) One (1) shake out area, identified as CF-SA, constructed in 1981, equipped with a cyclone, identified as CC-6, exhausting to Stack V-4.
 - (7) One (1) pouring and cooling line, identified as CF-PC2, equipped with two (2) baghouses, identified as CB-4 and CB-5, exhausting to Stacks C-3 and C-4.
- (c) One (1) sand casting process, constructed in 1981, maximum throughput: 6,664 pounds of bank sand, clay and core sand per hour, consisting of the following equipment:
- (1) One (1) natural gas-fired core machine, identified as CF-15, installed in 1981, exhausting to Stack S-1, with a throughput of 30 pounds of core sand per hour, heat input capacity: 0.108 million British thermal units per hour.
 - (2) Three (3) sand mullers, identified as CF-20, CF-21, and CF-22, constructed in 1981, exhausting to Stack V-5, with a throughput of 2,042 pounds of bank sand and clay per hour, total.
 - (3) One (1) ring muller, identified as CF-23, constructed in 1981, controlled by a cyclone, identified as CC-4, exhausting to Stack C-1, with a throughput of 4,593 pounds of bank sand and clay per hour.
- (d) One (1) natural gas-fired water heater, identified as CF-1, constructed in 1999, heat input capacity: 0.034 million British thermal units per hour.
- (e) Four (4) natural gas-fired furnaces, identified as CF-2 through CF-5, CF-2 and CF-3 constructed in 1981, CF-4 constructed in 1992, and CF-5 constructed in 1995, heat input capacity: 0.0825, 0.100, 0.080, and 0.125 million British thermal units per hour, respectively.
- (f) Five (5) natural gas-fired infrared heaters, identified as CF-6 through CF-10, constructed in 1981, heat input capacity: 0.03 million British thermal units per hour, each.
- (g) Two (2) natural gas-fired infrared heaters, identified as CF-11 and CF-12, constructed in 1995, heat input capacity: 0.06 million British thermal units per hour, each.
- (h) Two (2) natural gas-fired infrared heaters, identified as CF-13 and CF-14, constructed in 1995, heat input capacity: 0.10 million British thermal units per hour, each.
- (i) One (1) small parts reach in paint booth, identified as PB-01, constructed in 2005, equipped with high volume low pressure (HVLP) spray guns and dry filters for particulate control, exhausting to Stack C-6B, capacity: 10 metal parts per hour.

SECTION B

GENERAL CONDITIONS

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

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

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

- (a) This permit, MSOP 039-23278-00202, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

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

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

B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to MSOP 039-23278-00202 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least ninety (90) days prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

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

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

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.15 Source Modification Requirement

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

B.16 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2] [IC13-17-3-2] [IC 13-30-3-1]

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

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

B.17 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003

Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.18 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.19 Credible Evidence [326 IAC 1-1-6]

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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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

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

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

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

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least two hundred sixty (260) linear feet on pipes or one hundred sixty (160) square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are

applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least seventy-five hundredths (0.75) cubic feet on all facility components.

- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.9 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

legally required shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess

emissions from the affected facility while the response actions are being implemented.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.15 Malfunctions Report [326 IAC 1-6-2]

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

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

C.16 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (a) One (1) bronze castings process, maximum throughput: 320 pounds (0.160 tons) of bronze per hour, consisting of the following equipment:
- (1) Two (2) natural gas-fired crucible pot furnaces, identified as CF-16 and CF-17, constructed in 1986 and 1987, respectively, equipped with two (2) baghouses, identified as CB-4 and CB-5, exhausting to Stacks C-3 and C-4, heat input capacity: 0.950 million British thermal units per hour, each.
 - (2) One (1) barrel shot blast, identified as CF-24, constructed in 1981, equipped with a baghouse, identified as CB-8, exhausting to Stack V-8.
 - (3) Six (6) polish lathes, identified as CF-30, 31, 33, 34, 36 and 37, all installed in 1960 and equipped with a cyclone, identified as CC-1, connected in series to two (2) baghouses, identified as CB-1 and CB-2, exhausting to Stacks C-6A and C-6B.
 - (4) Two (2) grinding lathes, identified as CF-32 and CF-35, all installed in 1960 and equipped with a cyclone, identified as CC-1, connected in series to two (2) baghouses, identified as CB-1 and CB-2, exhausting to Stacks C-6A and C-6B.
 - (5) One (1) pouring and cooling line, identified as CF-PC1, equipped with two (2) baghouses, identified as CB-4 and CB-5, exhausting to Stacks C-3 and C-4.
- (b) One (1) aluminum and brass castings process, with a maximum throughput of 540 pounds (0.270 tons) of aluminum and 1,000 pounds (0.500 tons) of brass per hour, consisting of the following equipment:
- (1) Two (2) electric induction furnaces, identified as CF-18 and CF-19, constructed in 1995, equipped with two (2) baghouses, identified as CB-4 and CB-5, exhausting to Stacks C-3 and C-4.
 - (2) Three (3) grind lathes, identified as CF-38 through CF-40, installed in 1985, and one (1) sand blaster, identified as CF-27, constructed in 1999, all equipped with a cyclone, identified as CC-5, exhausting to Stack C-7.
 - (3) One (1) cabinet shot blaster, identified as CF-25, constructed in 1995, and one (1) polisher, identified as CF-29, equipped with a cyclone, identified as CC-2, connected in series to a baghouse, identified as CB-3, exhausting to Stack C-7.
 - (4) One (1) belted shot blast, identified as CF-26, installed in 1995, equipped with a baghouse, identified as CB-7, exhausted to the general ventilation.
 - (5) One (1) abrasive cut off saw, identified as CF-28, constructed in 1968, equipped with a cyclone, identified as CC-3, connected in series to a baghouse, identified as CB-6, exhausting to Stack C-8.
 - (6) One (1) shake out area, identified as CF-SA, constructed in 1981, equipped with a cyclone, identified as CC-6, exhausting to Stack V-4.
 - (7) One (1) pouring and cooling line, identified as CF-PC2, equipped with two (2) baghouses, identified as CB-4 and CB-5, exhausting to Stacks C-3 and C-4.
- (c) One (1) sand casting process, constructed in 1981, maximum throughput: 6,664 pounds of bank sand, clay and core sand per hour, consisting of the following equipment:
- (1) One (1) natural gas-fired core machine, identified as CF-15, installed in 1981, exhausting to Stack S-1, with a throughput of 30 pounds of core sand per hour, heat input capacity: 0.108 million British thermal units per hour.
 - (2) Three (3) sand mullers, identified as CF-20, CF-21, and CF-22, constructed in 1981, exhausting to Stack V-5, with a throughput of 2,042 pounds of bank sand and clay per hour, total.
 - (3) One (1) ring muller, identified as CF-23, constructed in 1981, controlled by a cyclone, identified as CC-4, exhausting to Stack C-1, with a throughput of 4,593 pounds of bank sand and clay per hour.

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

Emission Limitations and Standards

D.1.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the particulate emission rate from the following emission units and control devices shall not exceed the pounds per hour limitation when operating at the stated process weight rates calculated using the following equations:

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

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

Emission Unit (Baghouse/Cyclone)	Process Weight Rate (tons/hr)	Allowable Particulate Emissions (lbs/hr)
<i>Bronze Castings Process, consisting of the following emission units:</i>		
Crucible Pot furnaces CF-16 and CF-17 (Baghouses CB-4 & CB-5)	0.08, each	0.750, each
Barrel Shot blast CF-24 (Baghouse CB-8)	0.160	1.20
Polish Lathes CF-30, 31, 33, 34, 36 and 37 (Cyclone CC-1 and Baghouses CB-1 and CB-2)	0.080, total	0.750, total
Grinding Lathes CF-32 and CF-35 (Cyclone CC-1 and Baghouses CB-1 and CB- 2)	0.080, total	0.750, total
Pouring and Cooling CF- PC1 (Baghouses CB-4 and CB-5)	0.160	1.20
<i>Aluminum and Brass Castings Process, consisting of the following emission units:</i>		
Electric Induction Furnaces CF-18 and CF-19 (Baghouses CB-4 and CB-5)	0.250, each	1.62, each
Grind Lathes CF-38 through CF-40 (Cyclone CC-5)	0.500, total	2.58, total
Sandblaster CF-27 (Cyclone CC-5)	0.500	2.58
Cabinet shot blaster CF-25 (Cyclone CC-2 and Baghouse CB-3)	0.500	2.58
Polisher CF-29 (Cyclone CC-2 and Baghouse CB-3)	0.500	2.58

Emission Unit (Baghouse/Cyclone)	Process Weight Rate (tons/hr)	Allowable Particulate Emissions (lbs/hr)
Belted Shot blast CF-26 (Baghouse CB-7)	0.500	2.58
Abrasive cut-off saw CF-28 (Cyclone CC-3 and Baghouse CB-6)	0.500	2.58
Shakeout area CF-SA (Cyclone CC-6)	0.500	2.58
Pouring and Cooling CF-PC2 (Baghouses CB-4 and CB-5)	0.500	2.58
<i>Sand Castings Process, consisting of the following emission units:</i>		
Core Machine CF-15 (none)	Less than 0.050	0.551
Sand Mullers CF-20 through CF-22 (none)	1.02	4.15
Ring Muller CF-23 (Cyclone CC-4)	2.30	7.16

In addition, several of the emission units exhaust through the same baghouse or stack. The allowable particulate pursuant to 326 IAC 6-3-2 has been tabulated by stack/exhaust and baghouse as follows:

Stack # or Exhaust	Emission Unit	Process Weight Rate (tons/hr)	Allowable PM Emission Rate (pounds/hour)
Stacks C-3 and C-4	CF-16 CF-17	Subtotal of 0.160	1.50
	CF-18 CF-19	Subtotal of 0.500	3.24
	CF-PC1	Subtotal of 0.160	1.50
	CF-PC2	Subtotal of 0.160	1.50
			Total: 7.74
Stacks C-3 and C-4	CF-16 CF-17	Subtotal of 0.160	1.50
	CF-18 CF-19	Subtotal of 0.500	3.24
			Total: 4.74
Stack V-8	CF-24	0.160	1.20

Stack # or Exhaust	Emission Unit	Process Weight Rate (tons/hr)	Allowable PM Emission Rate (pounds/hour)
Stack C-6A	CF-30 CF-31 CF-33 CF-34 CF-36 CF-37	0.080	0.750
Stack C-6B	CF-32 CF-35	0.080	0.750
Stack C-7	CF-25	Subtotal of 0.500	2.58
	CF-27	Subtotal of 0.500	2.58
	CF-29	Subtotal of 0.500	2.58
	CF-38 CF-39 CF-40	Subtotal of 0.500	2.58
			Total: 10.3
Baghouse CB-7	CF-26	0.500	2.58
Stack C-8	CF-28	0.500	2.58
Stack V-4	CF-SA	0.500	2.58
Stack S-1	CF-15	Less than 0.050	0.551
Stack V-5	CF-20	1.02	4.15
	CF-21		
	CF-22		
Stack C-1	CF-23	2.30	7.16

D.1.2 PSD Minor Limit [326 IAC 2-2]

The PM emissions shall be limited as stated below:

- (a) Stack C-3 and C-4 emissions from the two (2) natural gas-fired crucible furnaces, identified as CF-16 and CF-17, the two (2) electric induction furnaces, identified as CF-18 and CF-19, and the two (2) pouring and cooling lines, identified as CF-PC1 and CF-PC2, shall not exceed 7.74 pounds of PM per hour, total.
- (b) Stack V-8 emissions from the barrel shot blast, identified as CF-24, shall not exceed 1.20 pounds of PM per hour.
- (c) Stack C-6A emissions from the six (6) polish lathes, identified as CF-30, CF-31, CF-33, CF-34, CF-36, and CF-37 shall not exceed 0.750 pounds of PM per hour, total.
- (d) Stack C-6B emissions from the two (2) grind lathes, identified as CF-32 and CF-35, shall not exceed 0.750 pounds of PM per hour, total.
- (e) Stack C-7 emissions from the cabinet shot blast, identified as CF-25, the sandblaster, identified as CF-27, the polisher, identified as CF-29, and the three (3) grind lathes, identified as CF-38 through CF-40, shall not exceed 10.3 pounds of PM, total.
- (f) Baghouse CB-7 emissions from the belted shot blast, identified as CF-26, shall not exceed 2.58 pounds of PM per hour.
- (g) Stack C-8 emissions from the abrasive cut off saw, identified as CF-28, shall not exceed

2.58 pounds of PM per hour.

- (h) Stack V-4 emissions from the shakeout area, identified as CF-SA, shall not exceed 2.58 pounds of PM per hour.
- (i) Stack C-1 emissions from the ring miller, identified as CF-23, shall not exceed 7.16 pounds of PM per hour.

Compliance with these PM limitations in combination with the unrestricted potential PM emissions of 16.3 tons per year from the natural gas-fired core machine, identified as CF-15, the three (3) sand mullers, identified as CF-20 through CF-22, the four (4) natural gas-fired furnaces, identified as CF-2 through CF-5, the five (5) natural gas-fired infrared heaters, identified as CF-6 through CF-10, the two (2) natural gas-fired infrared heaters, identified as CF-11 and CF-12, the two (2) natural gas-fired infrared heaters, identified as CF-13 and CF-14, and the small parts reach in paint booth, identified as PB-01, shall limit source-wide PM emissions to less than two hundred fifty (250) tons per year and render the requirements of 326 IAC 2-2, PSD, not applicable to this source.

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each of the facilities which comprise the bronze castings process, the aluminum and brass castings process, and the sand castings process and their baghouses and cyclones.

Compliance Determination Requirements

D.1.4 Particulate Control [326 IAC 2-7-6(6)]

- (a) In order to comply with Conditions D.1.1 and D.1.2, the baghouses and cyclones for particulate control shall be in operation and control emissions from the bronze castings process, aluminum and brass castings process, and the sand castings process at all times that the processes are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.5 Visible Emissions Notations

- (a) Visible emission notations of the bronze castings process, the aluminum and brass castings process, and the sand castings process stack exhausts (Stacks C-1 through C-4, C-6 through C-8, S-1, and V-5) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.6 Baghouse Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouses used in conjunction with the bronze castings process, the aluminum and brass castings process, and the sand castings process at least once per day when the processes are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 1.0 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.7 Broken or Failed Bag Detection

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

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, or dust traces.

D.1.8 Cyclone Failure Detection

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

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

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.5, the Permittee shall maintain a daily record of visible emission notations of the bronze castings process, the aluminum and brass castings process, and the sand castings process stack exhausts (Stacks C-1 through C-4, C-6 through C-8, S-1, and V-5). The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the bronze castings process, the aluminum and brass castings process, and the sand castings process did not operate that day).

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- (b) To document compliance with Condition D.1.6, the Permittee shall maintain a daily record of the pressure drop across the baghouse controlling the bronze castings process, the aluminum and brass castings process, and the sand castings process. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the bronze casting process, the aluminum and brass castings process, and the sand castings process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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

**MINOR SOURCE OPERATING PERMIT
CERTIFICATION**

Source Name: Crosbie Foundry Company, Inc.
Source Address: 1600 Mishawaka Street, Elkhart, Indiana 46514
Mailing Address: 1600 Mishawaka Street, Elkhart, Indiana 46514
Permit No.: MSOP 039-23278-00202

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Affidavit (specify) _____
- Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

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

Source Name:	Crosbie Foundry Company, Inc.
Address:	1600 Mishawaka Street
City:	Elkhart, Indiana 46514
Phone #:	574-262-1502
MSOP #:	039-23278-00202

I hereby certify that Crosbie Foundry Company, Inc. is

- still in operation.
- no longer in operation.

I hereby certify that Crosbie Foundry Company, Inc. is

- in compliance with the requirements of MSOP 039-23278-00202.
- not in compliance with the requirements of MSOP 039-23278-00202.

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

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

Noncompliance:

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

326 IAC 1-6-1 Applicability of rule

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

326 IAC 1-2-39 "Malfunction" definition

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

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

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