



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: April 19, 2010

RE: Howmet LaPorte Casting / 091-29110-00047

FROM: Matthew Stuckey, 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



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April 19, 2010

Mr. Mitch Bowling
Howmet LaPorte Casting
1110 E Lincolnway
LaPorte, IN 46350

Re: 091-29110-00047
Sixth Notice-Only Change to
M091-21153-00047

Dear Mr. Bowling:

Howmet LaPorte Casting was issued a Minor Source Operating Permit (MSOP) Renewal No. M091-21153-0047 on September 21, 2006, for a stationary metal alloy casting plant located at 1110 E Lincolnway, LaPorte, Indiana. On March 25, 2010, the Office of Air Quality (OAQ) received an application from the source relating to the modified operation of an existing trivial water pressure washing unit. There are no established emission factors for this activity but the dynamics of the process suggest low or negligible emissions. One ton per year, each, of PM, PM10, and PM2.5 has been added to the PTE of the source to account for any emissions this unit may have. The modification of this unit is considered a notice-only change, since the potential emissions of regulated criteria pollutants and hazardous air pollutants are less than the ranges specified 326 IAC 2-6.1-6(g)(4) and 326 IAC 2-6.1-6(d)(10), respectively. The uncontrolled/unlimited potential to emit of the entire source will continue to be less than the threshold levels specified in 326 IAC 2-7 (see Attachment A). The modification of this unit will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 or 326 IAC 2-3.

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.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (I) **One (1) trivial pressure washing operation, using hydraulic water to remove residual amounts of metal work pieces in an enclosed booth, identified as Waterblaster 31, constructed in 1991 and modified in 2010, exhausting outside of the building.**

Federal Rule Applicability

The requirements of the National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories (40 CFR Part 63), Subpart XXXXXX (6X), do not apply, because the facility not one of the nine source categories listed in 40 CFR 63.11514(a).

State Rule Applicability

326 IAC 6-3-2 (Particulate Limitations for Manufacturing Sources)

Pursuant to 326 IAC 6-3-1(b)(14), Waterblaster 31 is exempt from the requirements of 326 IAC 6-3-2 because the potential to emit particulate from the unit is less than 0.551 pounds per hour.

There are no rules applicable to this unit.

- (1) *IDEM has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore all timeline have been switched to "no later than" or "not later than".*

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

- (a) The Permittee shall pay annual fees due ~~within~~ **no later than thirty (30) calendar days** of receipt of a bill from IDEM, OAQ

IDEM has determined that rather than having a Certification condition and various references throughout the permit as to whether the a particular report, notice, or correspondence needs to include a certification, the specific conditions that require an affirmation of truth and completeness shall state so. The certification condition has been removed. All statements to whether a certification, pursuant to the former Section B - Certification, is needed or not have been removed. Section B - Credible Evidence and Section C - Asbestos Abatement Projects still require certification as the underlying rules also require certifications.

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 Reserved 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.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 prepare and maintain Preventive Maintenance Plans (PMPs) ~~within~~ **no later than** ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) - 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.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The Permittee shall implement the PMPs.

- (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.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~~ **an affirmation that the statements in the application are true and complete** 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
Permit Administration and Support Section, 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 one hundred twenty (120) 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, **pursuant to 326 IAC 2-6.1-4(b)**, 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) ***
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permit Administration and Support Section, 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 2-4.1-1(1).~~
- (c) The Permittee shall notify the OAQ within **no later than** thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

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
Permit Administration and Support Section, 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 **an affirmation that the statements in the application are true and complete** 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)]

C.13 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 and Enforcement Branch, 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) ~~Reserved 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) ***

- (2) *IDEM, OAQ has revised Condition C.6 (Asbestos Abatement Projects) of the permit to accommodate regulatory and/or administrative changes.*

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) ~~The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140. 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 260 linear feet on pipes or 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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 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.

- (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 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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit. A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Howmet LaPorte Casting
LaPorte, Indiana
Permit Reviewer: Bruce Farrar

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Notice-Only Change No. 091-29110-00047

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 Bruce Farrar, of my staff, at 317-234-5401 or 1-800-451-6027, and ask for extension 4-5401.

Sincerely,



Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit

IC/bf

cc: File - LaPorte County
LaPorte County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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MINOR SOURCE OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

Howmet LaPorte Casting 1110 East Lincolnway LaPorte, Indiana 46350

(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 an 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 091-21153-00047	
Original signed by Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: September 21, 2006 Expiration Date: September 21, 2016

- First Notice-Only Change: 091-23654-00047, issued January 26, 2007
- Second Notice-Only Change: 091-25514-00047, issued December 19, 2007
- Third Notice-Only Change: 091-26166-00047, issued March 25, 2008
- Fourth Notice-Only Change: 091-26794-00041, issued August 14, 2008
- Fifth Notice-Only Change: 091-28322-00047, issued September 2, 2009

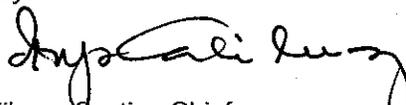
Sixth Notice-Only Change: 091-29110-00047	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: April 19, 2010 Expiration Date: September 21, 2016

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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 stationary metal alloy casting plant.

Source Address:	1110 East Lincolnway, LaPorte, Indiana, 46350
Mailing Address:	Same
General Source Phone:	(219) 326-7400
SIC Code:	3324
County Location:	LaPorte
Source Location Status:	Attainment area for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Rules Not 1 of 28 Source Categories

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (a) One (1) Ceramic Mold Operation, with a maximum capacity of 0.66 tons of metal and ceramic molds per hour, consisting of the following:
 - (1) One dewax furnace, identified as DEWAX-BIG-BERTHA, with a maximum rated heat capacity of 5.75MMBtu/hr, equipped with one (1) natural gas-fired afterburner rated at 1.2 MMBtu/hr as control, exhausting to stack DW1A;
 - (2) Sanding towers, identified as STUCCO-TWR-7, STUCCO-TWR-9 thru 22 & STUCCO-TWR-24 thru STUCCO-TWR-30, with a combined maximum capacity of 0.66 tons per hour of sand, with particulate controlled by a baghouse with High Efficiency Particulate Air (HEPA) filters, exhausting back into the Monoshell Department;
 - (3) Dip Manufacturing operation, using a maximum of 30 bags of Zircon flour per hour, with particulate controlled by a baghouse rated at 1,500 cfm, exhausting to stack DMBH-1; and
 - (4) One (1) barrel sander, with a maximum capacity of 0.6 tons per year of aluminum oxide, with particulate emissions exhausting back into the Monoshell Department.
- (b) Finished casting line, with a maximum capacity of 3.0 tons per hour of unfinished castings and ceramic shells, consisting of the following:
 - (1) Aluminum oxide blasting process, with particulate controlled by baghouses (Carter Day & Post Cast Filter), exhausting to stacks ZK1, ZK2, ZK3, and ZK4;

- (2) Twenty four (24) grinding booths, identified as:

<u>Unit Identification</u>	<u>Emission Unit No.</u>
DUST-COLL-FARR-PORTABLE	001
DUST-COLL-MONO-FARR	
DUST-COLL-FARR	001, 002, 003, 006, 008, 016, 020, 021, 024, 027, 029, 031, 033, 034, 035, 043, 045, 046, 048, 051, 052, 053

with a source wide maximum combined capacity of 3.0 tons per hour of metal, with particulate controlled by a primary and secondary (HEPA) filter system on each, with each exhausting to the interior of the building.

- (3) Sixteen (16) grinding booths, identified as:

<u>Unit Identification</u>	<u>Emission Unit No.</u>
Finishing Booth	01, 02, 03, 04, 05, 06, 07, 08
Accelerated Cell	01, 02, 03, 04
Wheel Cell	01, 02, 03, 04

with a source wide maximum combined capacity of 3.0 tons per hour of metal, with particulate controlled by the high efficiency cartridge dust collection system FARR GS40, with the option of exhausting through stack ZK-6 or exhausting through a HEPA filter to the interior of the building.

- (4) Five (5) grinding booths, identified as:

<u>Unit Identification</u>	<u>Emission Unit No.</u>
Structural Booth	01, 02, 03, 04, 05

with a source wide maximum combined capacity of 3.0 tons per hour of metal, with particulate controlled by the Carter Day Baghouses, collectively exhausting through stacks ZK-1, ZK-2, and ZK-3.

- (5) Acid etching process, equipped with a scrubber and demister for particulate control of HCl, exhausting to stack Scrubber 02;
- (6) Pneumatic Shell Removal, identified as KNOCKOUT-01 and KNOCKOUT-02, with a maximum capacity of 0.45 tons per hour each of casting shells, with particulate controlled by a baghouse rated at 8,966 acfm, exhausting to stack KOBH-1.
- (7) Plasma Arc Cutter with an integral downdraft filter unit, identified as PLASMA-CUTTER, with a maximum metal cutting rate of 30,910 inches per minute, exhausting to the dock area.
- (8) Nine (9) grinding booths, identified as Stator Cell 01 through 09, with particulate controlled by the Carter Day baghouse and exhausting to stacks ZK1, ZK2, ZK3, and ZK4;and

- (c) Metal Melting and Auxiliary Operations, with a maximum capacity of 3.0 tons per hour of metal, consisting of:
 - (1) Nine (9) Shell Preheater Ovens, identified as PREHEAT-02, JR PREHEAT-02, PREHEAT-04, PREHEAT-05, PREHEAT-06, JR PREHEAT-06, PREHEAT-09, PREHEAT-10, and JR PREHEAT-10, each with maximum rated heat inputs of 6.8, 0.75, 6.8, 6.8, 6.8, 0.75, 6.8, 6.8 and 0.75 MMBtu/hr, respectively, exhausting to stacks 2P, 2P1, 4P, 5P, 6P, 6P1, 9P, 10P, 10P1, respectively;
 - (2) Six (6) Electric Induction Ovens, identified as VACUUM-CAST-02, ROLLOVER-CAST-05, VACUUM-CAST-06, VACUUM-CAST-08, VACUUM-CAST-09, & VACUUM-CAST -10; and
 - (3) One (1) mold hot topping process.
- (d) Three (3) natural gas-fired boilers, identified as BOILER-HUMIDITY, BOILER-EAST, & BOILER-DEGREASE, constructed in 1991, 1991 and 1994, respectively, with maximum rated heat inputs of 2.0, 4.2 and 1.4 MMBtu/hr, respectively, exhausting to stacks B1, B3 and O4H, respectively;
- (e) One (1) natural gas-fired hot water heater, with a maximum rated heat input of 0.65 MMBtu/hr, exhausting to stack HW01;
- (f) Two (2) standby diesel generators, identified as GEN-AUXPWR-01 & GEN-AUXPWR-02, with maximum capacities of 315 hp and 375 hp, respectively;
- (g) One (1) monoshell latex surface coating booth, identified as Monoshell, with a maximum capacity of 15 wax forms per hour, equipped with dry filters to control particulate, exhausting to stack MS1;
- (h) One (1) natural gas-fired boiler, identified as Superior Boiler #3, constructed in 1957, with a maximum rated heat input of 13.4 MMBtu/hr, exhausting to stack B2.
- (i) Three (3) potassium hydroxide storage tanks, approved for installation in 2007, identified as Electric Low Temp 01, Electric Low Temp 02 and Electric Low Temp 03, equipped with a wet scrubber to control particulate in an air stream with a volumetric flow rate of 2,800 acfm and an inlet grain loading of 0.01 gr/acf of particulate, exhausting to stacks T1 and T2, respectively.
- (j) Miscellaneous natural gas-fired space heaters totaling a maximum of 0.10 MMBtu/hr heat input.
- (k) One (1) trivial pressure washing operation, using hydraulic water to remove residual amounts of metal work pieces in an enclosed booth, identified as Waterbalster 39, constructed in 1991 and modified in 2009, exhausting outside of the building.
- (l) One (1) trivial pressure washing operation, using hydraulic water to remove residual amounts of metal work pieces in an enclosed booth, identified as Waterbalster 31, constructed in 1991 and modified in 2010, exhausting outside of the building.

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 13-15-3-2]

- (a) This permit, 091-21153-00047, 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 13-15-3-2. Subsequent revisions 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. 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 Reserved

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 and Enforcement 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.

The Permittee shall implement the PMPs.

- (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.
- (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 091-21153-00047 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 an affirmation that the statements in the application are true and complete 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
Permit Administration and Support Section, 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 one hundred twenty (120) 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, pursuant to 326 IAC 2-6.1-4(b), 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (c) The Permittee shall notify the OAQ no later than 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(d)(3)]

- (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
Permit Administration and Support Section, 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 an affirmation that the statements in the application are true and complete 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, no later than thirty (30) calendar days of receipt of a billing.
- (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

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 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 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.5 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.6 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 260 linear feet on pipes or 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
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 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.

- (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 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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Compliance Requirements [326 IAC 2-1.1-11]

C.7 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.8 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.9 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.10 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.

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

C.11 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 attached 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.12 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 when operation begins.

C.13 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) Reserved.
- (c) Unless otherwise specified in this permit, any report(s) required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports 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:

- (a) One (1) Ceramic Mold Operation, with a maximum capacity of 0.66 tons of metal and ceramic molds per hour, consisting of the following:
 - (1) One dewax furnace, identified as DEWAX-BIG-BERTHA, with a maximum rated heat capacity of 5.75 MMBtu/hr, equipped with one (1) natural gas-fired afterburner rated at 1.2 MMBtu/hr as control, exhausting to stack DW1A;
 - (2) Sanding towers, identified as STUCCO-TWR-7, STUCCO-TWR-9 thru 22 & STUCCO-TWR-24 thru STUCCO-TWR-30, with a combined maximum capacity of 0.66 tons per hour of sand, with particulate controlled by a baghouse with High Efficiency Particulate Air (HEPA) filters, exhausting back into the Monoshell Department;
 - (3) Dip Manufacturing operation, using a maximum of 30 bags (1500 lbs) of Zircon flour per hour, with particulate controlled by a baghouse rated at 1,500 cfm, exhausting to stack DMBH-1; and
 - (4) One (1) barrel sander, with a maximum capacity of 0.6 tons per year of aluminum oxide, with particulate emissions exhausting back into the Monoshell Department.

- (b) Finished casting line, with a maximum capacity of 3.0 tons per hour of unfinished castings and ceramic shells, consisting of the following:

- (1) Aluminum oxide blasting process, with particulate controlled by baghouses (Carter Day & Post Cast Filter), exhausting to stacks ZK1, ZK2, ZK3, and ZK4;
- (2) Twenty four (24) grinding booths, identified as:

Unit Identification	Emission Unit No.
DUST-COLL-FARR-PORTABLE	001
DUST-COLL-MONO-FARR	
DUST-COLL-FARR	001, 002, 003, 006, 008, 016, 020, 021, 024, 027, 029, 031, 033, 034, 035, 043, 045, 046, 048, 051, 052, 053

with a source wide maximum capacity of 3.0 tons per hour of metal, with particulate controlled by a primary and secondary (HEPA) filter system on each, with each exhausting to the interior of the building.

- (3) Sixteen (16) grinding booths, identified as:

Unit Identification	Emission Unit No.
Finishing Booth	01, 02, 03, 04, 05, 06, 07, 08
Accelerated Cell	01, 02, 03, 04
Wheel Cell	01, 02, 03, 04

with a source wide maximum capacity of 3.0 tons per hour of metal, with particulate controlled by the high efficiency cartridge dust collection system FARR GS40, with the option of exhausting through stack SK-6, or through a HEPA filter to the interior of the building.

- (4) Five (5) grinding booths, identified as:

Unit Identification	Emission Unit No.
Structural Booth	01, 02, 03, 04, 05

with a source wide maximum capacity of 3.0 tons per hour of metal, with particulate controlled by the Carter Day Baghouses, collectively exhausting through stacks ZK-1, ZK-2, and ZK-3.

- (5) Acid etching process, equipped with a scrubber and demister for particulate control of HCl, exhausting to stack Scrubber 02;
- (6) Pneumatic Shell Removal, identified as KNOCKOUT-01 and KNOCKOUT-02, with a maximum capacity of 0.45 tons per hour each of casting shells, with particulate controlled by a baghouse rated at 8,966 acfm, exhausting to stack KOBH-1;
- (7) Plasma Arc Cutter with an integral downdraft filter unit, identified as PLASMA-CUTTER, with a maximum metal cutting rate of 30,910 inches per minute, exhausting to the dock area;
- (8) Nine (9) grinding booths, identified as Stator Cell 01 through 09, with particulate controlled by the Carter Day baghouse and exhausting to stacks ZK1, ZK2, ZK3, and ZK4.

(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 Emission Limitations for Manufacturing Processes [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies), the allowable particulate emission rate from the:

- (a) sanding towers (STUCCO-TWR-7, STUCCO-TWR-9 to 22 & STUCCO-TWR-24 to STUCCO-TWR-30) shall not exceed 3.1 pounds per hour when operating at a process weight rate of 1320 (0.66 t/hr) pounds per hour.
- (b) dip manufacturing process shall not exceed 3.38 pounds per hour when operating at a process weight rate of 1500 pounds per hour.
- (c) aluminum oxide blasting process shall not exceed 8.56 pounds per hour when operating at a process weight rate of 6000 pounds per hour.
- (d) pneumatic Shell Removal (KNOCKOUT-01 and KNOCKOUT-02) shall not exceed 2.4 pounds per hour when operating at a process weight rate of 903 (0.45 t/hr) pounds per hour.
- (e) The plasma cutter, identified as PLASMA-CUTTER, shall not exceed the amount indicated by the equation below.

The pounds per hour limitations were calculated with the following equation:

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

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.1.2 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

The particulate matter emissions from the Aluminum Oxide Blasting Operations to the Carter Day & Post Cast Filter shall not exceed 8.56 pounds per hour. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

Compliance Determination Requirements

D.1.3 Particulate Control

- (a) The baghouses for particulate control shall be in operation at all times when the Aluminum Oxide Blasting process (Carter Day & Post Cast Filter), Pneumatic Shell Removal (KNOCKOUT-01 and KNOCKOUT-02), and Sanding Towers (STUCCO-TWR-7, STUCCO-TWR-9 to 22, and STUCCO-TWR-24 to 30) units 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.
- (c) The downdraft filter unit for particulate control shall be operation at all times when the plasma arc cutter, identified as PLASMA-CUTTER, is in operation.

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

D.1.4 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (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, dust traces or triboflows.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description:

- (c) Metal Melting and Auxiliary Operations, with a maximum capacity of 3.0 tons per hour of metal, consisting of:
 - (1) Nine (9) Shell Preheater Ovens, identified as PREHEAT-02, JR PREHEAT-02, PREHEAT-04, PREHEAT-05, PREHEAT-06, JR PREHEAT-06, PREHEAT-09, PREHEAT-10, and JR PREHEAT-10, each with maximum rated heat inputs of 6.8, 0.75, 6.8, 6.8, 6.8, 0.75, 6.8, 6.8 and 0.75 MMBtu/hr, respectively, exhausting to stacks 2P, 2P1, 4P, 5P, 6P, 6P1, 9P, 10P, 10P1, respectively;
 - (2) Six (6) Electric Induction Ovens, identified as VACUUM-CAST-02, ROLLOVER-CAST-05, VACUUM-CAST-06, VACUUM-CAST-08, VACUUM-CAST-09, & VACUUM-CAST-10; and
 - (3) One (1) mold hot topping process.
- (d) Three (3) natural gas-fired boilers, identified as BOILER-HUMIDITY, BOILER-EAST, & BOILER-DEGREASE, constructed in 1991, 1991 and 1994, respectively, with maximum rated heat inputs of 2.0, 4.2 and 1.4 MMBtu/hr, respectively, exhausting to stacks B1, B3 and O4H, respectively;
- (e) One (1) natural gas-fired hot water heater, with a maximum rated heat input of 0.65 MMBtu/hr, exhausting to stack HW01;
- (f) Two (2) standby diesel generators, identified as GEN-AUXPWR-01 & GEN-AUXPWR-02, with maximum capacities of 315 hp and 375 hp, respectively;
- (g) One (1) monoshell latex surface coating booth, identified as Monoshell, with a maximum capacity of 15 wax forms per hour, equipped with dry filters to control particulate, exhausting to stack MS1;
- (h) One (1) natural gas-fired boiler, identified as Superior Boiler #3, constructed in 1957, with a maximum rated heat input of 13.4 MMBtu/hr, exhausting to stack B2.
- (i) Three (3) potassium hydroxide storage tanks, approved for installation in 2007, identified as Electric Low Temp 01, Electric Low Temp 02, and Electric Low Temp 03, equipped with a wet scrubber to control particulate in an air stream with a volumetric flow rate of 2,800 acfm and an inlet grain loading of 0.01 gr/acf of particulate, exhausting to stacks T1 and T2, respectively.
- (j) Miscellaneous natural gas-fired space heaters totaling a maximum of 0.10 MMBtu/hr heat input.

(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.2.1 Particulate Matter Limitation (PM) [326 IAC 6-2]

- (a) Pursuant to 326 IAC 6-2-3(d) (Particulate emission limitations for sources of indirect heating) particulate emissions from Superior Boiler #3, with rated capacity of 13.4 MMBtu/hr shall be limited to 0.8 lb/MMBtu.
- (b) Pursuant to 326 IAC 6-2-4(a) (Particulate emission limitations for sources of indirect heating), particulate emissions from BOILER-HUMIDITY and BOILER-EAST shall be limited to 0.50 lb/MMBtu each, based on a total source rated capacity of 19.6 MMBtu/hr.

- (c) Pursuant to 326 IAC 6-2-4(a) (Particulate emission limitations for sources of indirect heating), particulate emissions from BOILER-DEGREASE shall be limited to 0.49 lb/MMBtu each, based on a total source rated capacity of 21.0 MMBtu/hr.

The emission rates in (b) and (c) above were calculated using the following equation:

$$Pt = \frac{1.09}{Q^{0.26}} \quad \text{where: } Q = \text{total source rated capacity in MMBtu/hr}$$

D.2.2 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3]

Pursuant to 326 IAC 6-3-2 (Particulate emission limitations, work practices, and control technologies), the allowable PM emission rate from the Melted Metal Operation, shall not exceed 8.56 pounds per hour when operating at a process weight rate of 6000 pounds per hour (3 ton/hr).

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:

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

D.2.3 Natural Gas Fuel

The natural gas-fired boilers (BOILER-HUMIDITY, BOILER-EAST, BOILER-DEGREASE, and Superior Boiler #3) shall combust only natural gas as fuel.

Compliance Determination Requirements

There are no Compliance Determination Requirements applicable to these emission units.

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

There are no Compliance Monitoring Requirements applicable to these emission units.

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

There are no Record Keeping and Reporting Requirements applicable to these emission units.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT 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).

Company Name:	Howmet LaPorte Casting
Address:	1110 East Lincolnway, LaPorte, Indiana 46350
County:	LaPorte
Phone #:	219/326-7400
MSOP #:	091-21153-00047

I hereby certify that **Howmet LaPorte Casting** is

- still in operation.
 no longer in operation.

I hereby certify that **Howmet LaPorte Casting** is

- in compliance with the requirements of
MSOP **091-21153-00047**.
 not in compliance with the
requirements of
MSOP **091-21153-00047**.

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:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865**

**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.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?____, 25 TONS/YEAR SULFUR DIOXIDE ?____, 25 TONS/YEAR NITROGEN OXIDES?____, 25 TONS/YEAR VOC ?____, 25 TONS/YEAR HYDROGEN SULFIDE ?____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?____, 25 TONS/YEAR FLUORIDES ?____, 100TONS/YEAR CARBON MONOXIDE ?____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF >MALFUNCTION= AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: Howmet LaPorte Casting PHONE NO. (219) 326-7400
LOCATION: (CITY AND COUNTY) LaPorte, LaPorte County
PERMIT NO. 091-21153-00047 AFS PLANT ID: 091-00047 AFS POINT ID: _____ INSP: Rick Massoels
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC,
OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:
CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

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:

Attachment A: Emissions Calculations

Source-wide Summary

Company Name: Howmet LaPorte Casting
Address City IN Zip: 1110 E. Lincolnway, LaPorte, IN 46350
Permit Number: 091-29110-00047
Reviewer: Bruce Farrar
Date: March 25, 2010

Emission Unit	Unlimited Potential to Emit								Single HAP (tons/yr)
	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Total HAP (tons/yr)	
Combustion*	0.62	2.48	2.48	0.20	32.61	1.79	27.39	0.62	0.59 - hexane
Induction Ovens*	11.83	11.83	11.83	0.00	0.00	0.00	0.00	1.31	1.31 - lead
Dewax Furnace	3.56	3.56	3.56	0.00	0.00	0.00	0.00	0.00	0.00
Sanding and Dip Manuf.*	17.17	8.32	8.32	0.00	0.00	0.00	0.00	0.00	0.00
Pneumatic Shell Removal*	12.61	8.83	8.83	0.00	0.00	0.00	0.00	0.00	0.00
Grinding/ Finishing*	0.13	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Aluminum Oxide Blasting*	223.38	22.34	22.34	0.00	0.00	0.00	0.00	0.00	0.00
Welding/ Flame Cutting*	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00
Barrel Sander*	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hot Topping*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.98	7.98 - HF
Acid Etch*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.40 - HCl
Emergency Generator*	0.38	0.38	0.38	0.35	5.35	0.43	1.15	0.00	0.00
Laser Cutter **	1.58	1.58	1.58	0.00	0.00	0.00	0.00	1.36	1.17 - nickel
Washing***	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Washing (31)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	274.25	62.36	62.36	0.55	37.96	2.22	28.54	12.67	

Attachment A: Emissions Calculations

Source-wide Summary

Company Name: Howmet LaPorte Casting
 Address City IN Zip: 1110 E. Lincolnway, LaPorte, IN 46350
 Permit Number: 091-29110-00047
 Reviewer: Bruce Farrar
 Date: March 25, 2010

Emission Unit	Limited Potential to Emit								Single HAP (tons/yr)
	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Total HAP (tons/yr)	
Combustion*	0.62	2.48	2.48	0.20	32.61	1.79	27.39	0.62	0.59 - hexane
Induction Ovens*	11.83	11.83	11.83	0.00	0.00	0.00	0.00	1.31	1.31 - lead
Dewax Furnace	3.56	3.56	3.56	0.00	0.00	0.00	0.00	0.00	0.00
Sanding and Dip Manuf.*	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Pnuematic Shell Removal*	1.06	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00
Grinding/ Finishing*	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aluminum Oxide Blasting ¹	37.50	6.76	6.76	0.00	0.00	0.00	0.00	0.00	0.00
Welding/ Flame Cutting*	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00
Barrel Sander*	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hot Topping*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.98	7.98 - HF
Acid Etch*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.40 - HCl
Emergency Generator*	0.38	0.38	0.38	0.35	5.35	0.43	1.15	0.00	0.00
Laser Cutter **	1.58	1.58	1.58	0.00	0.00	0.00	0.00	1.36	1.17 - nickel
Washing ***	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Washing (31)	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	59.60	31.73	31.72	0.55	37.96	2.22	28.54	12.67	

* PTE based on 091-21153-00047 issued on September 21, 2006

** PTE based on 091-23654-00047 issued on January 26, 2007

*** PTE based on 091-28322-00047 issued on September 2, 2009

1. Limited PTE based on 091-21153-00047 issued on September 21, 2006



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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Mitch M. Bowling
Howmet LaPorte Casting
1110 E Lincolnway
LaPorte, IN 46350

DATE: April 19, 2010

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

SUBJECT: Final Decision
MSOP
091 - 29110 - 00047

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Christine A. Gooch, Responsible Official
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	DPABST 4/19/2010 Howmet LaPorte Casting 091-29110-00047 (Final)		CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Mitch M. Bowling Howmet LaPorte Casting 1110 E Lincolnway LaPorte IN 46350-3954 (Source CAATS) (CONFIRM DELIVERY)										
2		Christine A. Gooch General Manager Howmet LaPorte Casting 1110 E Lincolnway LaPorte IN 46350 (RO CAATS)										
3		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
4		LaPorte City Council/ Mayors Ofc. 801 Michigan Avenue LaPorte IN 46350 (Local Official)										
5		LaPorte County Commissioners 555 Michigan Avenue # 202 LaPorte IN 46350 (Local Official)										
6		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
7		Mr. Scott Sanders Howmet Casting and Services, Inc 1110 E. Lincolnway LaPorte IN 46350 (Affected Party)										
8		LaPorte County Health Department County Complex, 4th Floor, 809 State St. LaPorte IN 46350-3329 (Health Department)										
9		Mr. Dick Paulen Barnes & Thornburg 121 W Franklin Street Elkhart IN 46216 (Affected Party)										
10		Ms. Mindy Heidel 9223 Broadway Suite A Merrillville IN 46410 (Affected Party)										
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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