INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
MC 61-53 IGCN 1003
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: October 29, 2007

RE: Madison Precision Products, Inc. / 077-25329-00019

FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision – Approval

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

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-AM.dot 03/23/06

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Mr. Louis Alexander
Madison Precision Products, Inc.
94 East 400 North
Madison, Indiana 47250

October 29, 2007

Re: 077-25329-00019
Second Notice-Only Change to
Minor Source Operating Permit No: 077-19827-00019

Dear Mr. Alexander:

Madison Precision Products, Inc. was issued a Minor Source Operating Permit (MSOP) on December 7, 2006 for an aluminum automotive parts manufacturing plant. On September 24, 2007, the Office of Air Quality (OAQ) received an application requesting that the total static pressure drop across the baghouse be adjusted to allow for normal working fluctuations, and notifying of the addition of one (1) aluminum melting furnace (identified as P13). Pursuant to the provisions of 326 IAC 2-6.1-6(d), the MSOP is hereby revised as follows, with deleted language as ~~strikeouts~~ and new language **bolded**:

1. Condition D.1.4 has been modified to reflect the adjusted total static pressure drop across the baghouse.

...

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

...

D.1.4 Baghouse/Dust Collector Parametric Monitoring

(a) The Permittee shall record the pressure drop across the baghouses/dust collectors used in conjunction with the shot blasting units at least once per day when the shot blasting units are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of **1.0** ~~4.0~~ and 6.0 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.

...

2. The Permittee plans to add one (1) aluminum melting furnace (identified as P13). The potential to emit of each criteria pollutant will remain less than 100 tons per year and HAPs will remain less than 10 and 25 tons per year for any single HAP and combination of HAPs, respectively. The modification is being made pursuant to 326 IAC 2-6.1-6(d)(13) because it involves the addition of an emission unit of the same type that is already permitted and that will comply with the same applicable requirements and permit terms and conditions as the existing emission units, and the modification does not result in the potential to emit of the entire source to be greater than the thresholds in 326 IAC 2-2 (PSD) or 2-3 (Emission Offset) as shown in the table below:

	Potential to Emit (tons/year)							
	PM	PM10	SO_2	NOx	VOC	CO	Single HAP	Total HAPS
Existing Units	74.2	65.3	0.15	25.4	1.40	21.4	0.88	1.47
New Unit	0.78	0.80	2.06E-03	0.34	0.02	0.29	0.07	0.08
Facility Total	75.0	66.2	0.16	25.8	1.42	21.7	0.95	1.54

3. The emission unit description was included in Section A.2 and Section D.2 as shown below. Certain conditions in D.2 have been modified to include the additional aluminum melting furnace and applicable requirements. The Table of Contents has been updated to reflect these changes.

A.2 Emission Units and Pollution Control Equipment Summary

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

...

(l) One (1) natural gas-fired reverberatory melt furnace, identified as P13, approved for construction in 2007, melting only clean charge, with a maximum heat input capacity of 0.80 million British thermal units per hour, exhausting to stack P13, and with a maximum throughput capacity of 550 pounds of aluminum ingots per hour.

(~~l~~ **m**) Thirty-one (31) natural gas-fired heaters, identified as H1 – H33, with a total maximum capacity of 33.38 million British thermal units per hour.

(~~m~~ **n**) One (1) stick welding station, with a maximum electrode usage of 200 pounds per year.

(~~n~~ **o**) One (1) TIG welding station, with a maximum metal consumption of 20 pounds per year.

(~~o~~ **p**) One (1) oxyacetylene flame cutting operation, with a maximum of 36 inches of metal cut per week.

(~~p~~ **q**) Fifteen (15) electric holding furnaces, identified as F-1 – F-15, with negligible emissions. All emissions are attributed to the melting of the aluminum ingots.

...

SECTION D.2 FACILITY OPERATION CONDITIONS

Emissions Unit Description: Natural gas fired melt furnaces

. . .

(l) One (1) natural gas-fired reverberatory melt furnace, identified as P13, approved for construction in 2007, melting only clean charge, with a maximum heat input capacity of 0.80 million British thermal units per hour, exhausting to stack P13, and with a maximum throughput capacity of 550 pounds of aluminum ingots per hour.

(~~l~~ **m**) Thirty-one (31) natural gas-fired heaters, identified as H1 – H33, with a total maximum capacity of 33.38 million British thermal units per hour.

(~~m~~ **n**) One (1) stick welding station, with a maximum electrode usage of 200 pounds per year.

(~~n~~ **o**) One (1) TIG welding station, with a maximum metal consumption of 20 pounds per year.

(~~o~~ **p**) One (1) oxyacetylene flame cutting operation, with a maximum of 36 inches of metal cut per week.

(~~p~~ **q**) Fifteen (15) electric holding furnaces, identified as F-1 – F-15, with negligible emissions. All emissions are attributed to the melting of the aluminum ingots.

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

D.2.1 Particulate [326 IAC 6-3-2]

...

(12) P13 shall not exceed 1.73 pounds per hour when operating at a process weight of 0.275 tons per hour.

...

D.2.2 Clean Charge

The natural gas fired reverberatory furnaces, identified as P1 – P3 and P7 – P11 **and P13**, shall only melt clean charge.

...

D.2.3 Testing Requirements [326 IAC 2-1.1-11]

Within 180 days of permit issuance, in order to show compliance with of 326 IAC 2-6.1 (MSOP) and to verify the use of alternative emission factors, the source must perform PM and PM_{10} performance testing for the natural gas fired reverberatory melt furnaces, identified as P1 – P3 and P5 – ~~P11~~**P13**, utilizing methods as approved by the Commissioner. Any two (2) melt furnaces from Group 1 (P1, P2, P3, P7, P8, P9, and P10) with one (1) melt furnace from Group 2 (P5**,** ~~and~~ P6**,** ~~and~~ P12 **and P13**) along with the one (1) melt furnace, identified as P11, in Group 3, shall be tested. PM_{10} includes filterable and condensable PM_{10}.

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

D.2.4 Visible Emissions Notations

(a) Visible emission notations of the reverberatory melt furnaces stack exhaust (P1 – P3 and P7 – ~~P11~~ **P13**) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

...

4. IDEM, OAQ has decided to make additional revisions to the permit as described below. The permit is revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

A. All occurrences of IDEM mailing addresses have been revised to include a mail code (MC) as follows:

Asbestos Section:	**MC 61-52 IGCN 1003**
Compliance Branch:	**MC 61-53 IGCN 1003**
Permits Branch:	**MC 61-53 IGCN 1003**
Technical Support and Modeling Section:	**MC 61-50 IGCN 1003**

B. In order to correct a typographical error, Condition C.12(b) is revised from the terminology "one-hundred and twenty" to "one hundred twenty" as follows:

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test

...

(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 ~~and~~ twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

...

C. To clarify record keeping requirements for visible emission notations, the permit language has been revised as follows;

...

D.1.6 Record Keeping Requirements

(a) To document compliance with Condition D.1.3, the Permittee shall maintain **a daily** record~~s~~ of visible emission notations of the shot blasting**.** ~~exhaust once per day, or when the~~ **The permitee shall include in its daily record when a** visible emission~~s~~ notation~~s~~ ~~were~~ **is** not taken and the reason for ~~it~~ **the lack of visible emission notation, e.g. the process did not operate that day.**.

(b) To document compliance with Condition D.1.4, the Permittee shall maintain **a daily** record~~s~~ ~~once per day~~ of the pressure drop **across the baghouse controlling the shot blasting. The permitee shall include in its daily record when a pressure drop reading is not taken and the reason for ~~it~~ the lack of pressure drop reading, e.g. the process did not operate that day.**

...

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 Hannah Desrosiers, at (800) 451-6027, press 0 and ask for extension 4-5374, or dial (317) 234-5374.

Sincerely,

Original signed by Iryn Calilung for
Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

NS/hld

cc: File - Jefferson County
U.S. EPA, Region V
Jefferson County Health Department
Air Compliance Section Inspector - Seneca Cluck
Compliance Data Section
Administrative and Development
Technical Support and Modeling

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MINOR SOURCE OPERATING PERMIT RENEWAL
OFFICE OF AIR QUALITY

Madison Precision Products, Inc.
94 East 400 North
Madison, Indiana 47250

(herein known as the Permittee) is hereby authorized to construct and 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 FESOP under 326 IAC 2-8.

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.: 077-19827-00019	
Originally Issued by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: December 7, 2006 Expiration Date: December 7, 2011

First Notice-Only Change No.: 077-24369-00019, Issued on March 27, 2007.

Second Notice-Only Change No.: 077-25329-00019	
Issued by: *Original signed by Iryn Calilung for* Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: October 29, 2007 Expiration Date: December 7, 2011

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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 through 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 aluminum automotive parts manufacturing source.

Source Address:	94 East 400 North, Madison, Indiana 47250
Mailing Address:	94 East 400 North, Madison, Indiana 47250
General Source Phone Number:	812 - 273 - 4702
SIC Code:	3363
County Location:	Jefferson
Source Location Status:	Nonattainment for $PM_{2.5}$ Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD Rules and Nonattainment NSR Minor Source, Section 112 of the Clean Air Act

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) mechanical shotblasting unit, identified as B1, operation began in May 1989, using a cartridge filter for particulate control, exhausting inside the building, with a maximum blast rate of 230 pounds per hour of #50 steel grit.

(b) One (1) mechanical shotblasting unit, identified as B4, operation began in July 1994, using a baghouse for particulate control, exhausting inside the building, with a maximum blast rate of 140 pounds per hour of #40 zinc cut wire.

(c) One (1) mechanical shotblasting unit, identified as B6, operation began in 1996, using a wet venturi scrubber for particulate control, exhausting inside the building, with a maximum blast rate of 320 pounds per hour of carbon steel cut wire.

(d) One (1) mechanical shotblasting unit, identified as B7, operation began in 1997, using a wet venturi scrubber for particulate control, exhausting inside the building, with a maximum blast rate of 405 pounds per hour of #50 steel shot.

(e) One (1) mechanical shotblasting unit, identified as B-8, operation began in 1997, using a wet venturi scrubber for particulate control, exhausting inside the building, with a maximum blast rate of 1,375 pounds per hour of carbon steel cut wire.

(f) Three (3) natural gas fired reverberatory melt furnaces, identified as P1 – P3, installed by 1993, melting only clean charge, with maximum heat input capacities of 2.53, 2.53, and 3.0 million British thermal units per hour, exhausting to stacks P1, P2, and P3, respectively, and with a maximum throughput capacity of 1,500 pounds per hour of aluminum ingots, each.

(g) Three (3) natural gas fired reverberatory melt furnaces, identified as P5 – P7, installed by 1993, melting only clean charge, with maximum heat input capacities of 0.80, 0.80, and 2.8 million British thermal units per hour, respectively, exhausting to stacks P5, P6, and P7, and with a maximum throughput capacity of 450, 450, and 1,300 pounds per hour of aluminum ingots, respectively.

(h) Two (2) natural gas fired reverberatory melt furnaces, identified as P8 and P9, installed in 1996, melting only clean charge, with a maximum heat input capacity of 7.3 million British thermal units per hour, total, exhausting to stacks P8 and P9, and with a maximum throughput capacity of 3,300 pounds per hour of aluminum ingots, total.

(i) One (1) natural gas fired reverberatory melt furnace, identified as P10, installed in 1998, melting only clean charge, with a maximum heat input capacity of 2.3 million British thermal units per hour, exhausting to stack P10, and with a maximum throughput capacity of 1,500 pounds of aluminum ingots per hour.

(j) One (1) natural gas fired reverberatory melt furnace, identified as P11, installed in 2006, melting only clean charge, with a maximum heat input capacity of 1.7 million British thermal units per hour, exhausting to stack P11, and with a maximum throughput capacity of 1,200 pounds of aluminum ingots per hour.

(k) One (1) natural gas-fired reverberatory melt furnace, identified as P12, approved for construction in 2007, melting only clean charge, with a maximum heat input capacity of 0.80 million British thermal units per hour, exhausting to stack P12, and with a maximum throughput capacity of 550 pounds of aluminum ingots per hour.

(l) One (1) natural gas-fired reverberatory melt furnace, identified as P13, approved for construction in 2007, melting only clean charge, with a maximum heat input capacity of 0.80 million British thermal units per hour, exhausting to stack P13, and with a maximum throughput capacity of 550 pounds of aluminum ingots per hour.

(m) Thirty-one (31) natural gas-fired heaters, identified as H1 – H33, with a total maximum capacity of 33.38 million British thermal units per hour.

(n) One (1) stick welding station, with a maximum electrode usage of 200 pounds per year.

(o) One (1) TIG welding station, with a maximum metal consumption of 20 pounds per year.

(p) One (1) oxyacetylene flame cutting operation, with a maximum of 36 inches of metal cut per week.

(q) Fifteen (15) electric holding furnaces, identified as F-1 – F-15, with negligible emissions. All emissions are attributed to the melting of the aluminum ingots.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

This permit to operate does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 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.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6]

(a) This permit, M 077-19827-00019, is issued for a fixed term of five (5) 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.5 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.6 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.7 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.8 Property Rights or Exclusive Privilege

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

B.9 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.10 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.11 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, 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.12 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 ninety (90) days after issuance of this permit, 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.

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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to M 077-19827-00019 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.14 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.15 Deviations from Permit Requirements and Conditions

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported 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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 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

and

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

(a) Permit amendments and revision 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.18 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 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.19 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.20 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.

(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.21 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 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 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
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 2-7-1(34).

(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 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

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

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than180 days after initial start-up, if

specified in Section D of this approval. 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.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14 days) prior to the actual 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 (and local agency) not later than forty-five (45) days after the completion of the testing. An extension may be granted by the 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.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

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.

C.10 Instrument Specifications [326 IAC 2-1.1-11]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

C.11 Response to Excursions and Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

(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.12 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

C.13 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.14 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.15 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, any report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Shot Blasting

(a) One (1) mechanical shotblasting unit, identified as B1, operation began in May 1989, using a cartridge filter for particulate control, exhausting inside the building, with a maximum blast rate of 230 pounds per hour of #50 steel grit.

(b) One (1) mechanical shotblasting unit, identified as B4, operation began in July 1994, using a baghouse for particulate control, exhausting inside the building, with a maximum blast rate of 140 pounds per hour of #40 zinc cut wire.

(c) One (1) mechanical shotblasting unit, identified as B6, operation began in 1996, using a wet venturi scrubber for particulate control, exhausting inside the building, with a maximum blast rate of 320 pounds per hour of carbon steel cut wire.

(d) One (1) mechanical shotblasting unit, identified as B7, operation began in 1997, using a wet venturi scrubber for particulate control, exhausting inside the building, with a maximum blast rate of 405 pounds per hour of #50 steel shot.

(e) One (1) mechanical shotblasting unit, identified as B-8, operation began in 1997, using a wet venturi scrubber for particulate control, exhausting inside the building, with a maximum blast rate of 1,375 pounds per hour of carbon steel cut wire.

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

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

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the shotblasting units:

(1) B1 shall not exceed 0.96 pounds per hour when operating at a process weight of 0.115 tons per hour.

(2) B4 shall not exceed 0.69 pounds per hour when operating at a process weight of 0.07 tons per hour.

(3) B6 shall not exceed 1.2 pounds per hour when operating at a process weight of 0.16 tons per hour.

(4) B7 shall not exceed 1.4 pounds per hour when operating at a process weight of 0.201 tons per hour.

(5) B8 shall not exceed 3.19 pounds per hour when operating at a process weight of 0.688 tons per hour.

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

Compliance Determination Requirements

D.1.2 Particulate Control

(a) In order to comply with Condition D.1.1, the baghouses/dust collectors for particulate control shall be in operation and control emissions from the shot blasting units at all times that the shot blasting 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.

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

D.1.3 Visible Emissions Notations

(a) Visible emission notations of the shotblasting exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

D.1.4 Baghouse/Dust Collector Parametric Monitoring

(a) The Permittee shall record the pressure drop across the baghouses/dust collectors used in conjunction with the shot blasting units at least once per day when the shot blasting units are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 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.1.5 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. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For 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 emission unit. Operations may continue only if the event

qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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.

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

D.1.6 Record Keeping Requirements

(a) To document compliance with Condition D.1.3, the Permittee shall maintain a daily record of visible emission notations of the shot blasting. The permitee shall include in its daily record when a visible emission~~s~~ notation is not taken and the reason for the lack of visible emission notation, e.g. the process did not operate that day.

(b) To document compliance with Condition D.1.4, the Permittee shall maintain a daily record of the pressure drop across the baghouse controlling the shot blasting. The permitee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading, e.g. the process did not operate that day.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

Emissions Unit Description: Natural gas fired melt furnaces

(f) Three (3) natural gas fired reverberatory melt furnaces, identified as P1 – P3, installed by 1993, melting only clean charge, with maximum heat input capacities of 2.53, 2.53, and 3.0 million British thermal units per hour, exhausting to stacks P1, P2, and P3, respectively, and with a maximum throughput capacity of 1,500 pounds per hour of aluminum ingots, each.

(g) Three (3) natural gas fired reverberatory melt furnaces, identified as P5 – P7, installed by 1993, melting only clean charge, with maximum heat input capacities of 0.80, 0.80, and 2.8 million British thermal units per hour, respectively, exhausting to stacks P5, P6, and P7, respectively, and with a maximum throughput capacity of 450, 450, and 1,300 pounds per hour of aluminum ingots, respectively.

(h) Two (2) natural gas fired reverberatory melt furnaces, identified as P8 and P9, installed in 1996, melting only clean charge, with a maximum heat input capacity of 7.3 million British thermal units per hour, total, exhausting to stacks P8 and P9, and with a maximum throughput capacity of 3,300 pounds per hour of aluminum ingots, total.

(i) One (1) natural gas fired reverberatory melt furnace, identified as P10, installed in 1998, melting only clean charge, with a maximum heat input capacity of 2.3 million British thermal units per hour, exhausting to stack P10, and with a maximum throughput capacity of 1,500 pounds of aluminum ingots per hour.

(j) One (1) natural gas fired reverberatory melt furnace, identified as P11, installed in 2006, melting only clean charge, with a maximum heat input capacity of 1.7 million British thermal units per hour, exhausting to stack P11, and with a maximum throughput capacity of 1,200 pounds of aluminum ingots per hour.

(k) One (1) natural gas-fired reverberatory melt furnace, identified as P12, approved for construction in 2007, melting only clean charge, with a maximum heat input capacity of 0.80 million British thermal units per hour, exhausting to stack P12, and with a maximum throughput capacity of 550 pounds of aluminum ingots per hour.

(l) One (1) natural gas-fired reverberatory melt furnace, identified as P13, approved for construction in 2007, melting only clean charge, with a maximum heat input capacity of 0.80 million British thermal units per hour, exhausting to stack P13, and with a maximum throughput capacity of 550 pounds of aluminum ingots per hour.

(m) Thirty-one (31) natural gas-fired heaters, identified as H1 – H33, with a total maximum capacity of 33.38 million British thermal units per hour.

(n) One (1) stick welding station, with a maximum electrode usage of 200 pounds per year.

(o) One (1) TIG welding station, with a maximum metal consumption of 20 pounds per year.

(p) One (1) oxyacetylene flame cutting operation, with a maximum of 36 inches of metal cut per week.

(q) Fifteen (15) electric holding furnaces, identified as F-1 – F-15, with negligible emissions. All emissions are attributed to the melting of the aluminum ingots.

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

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

D.2.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the melting furnaces:

(1) P1 shall not exceed 3.38 pounds per hour when operating at a process weight of 0.75 tons per hour.

(2) P2 shall not exceed 3.38 pounds per hour when operating at a process weight of 0.75 tons per hour.

(3) P3 shall not exceed 3.38 pounds per hour when operating at a process weight of 0.75 tons per hour.

(4) P5 shall not exceed 1.51 pounds per hour when operating at a process weight of 0.225 tons per hour.

(5) P6 shall not exceed 1.51 pounds per hour when operating at a process weight of 0.225 tons per hour.

(6) P7 shall not exceed 3.07 pounds per hour when operating at a process weight of 0.65 tons per hour.

(7) P8 shall not exceed 3.07 pounds per hour when operating at a process weight of 0.65 tons per hour.

(8) P9 shall not exceed 4.10 pounds per hour when operating at a process weight of 1 ton per hour.

(9) P10 shall not exceed 3.38 pounds per hour when operating at a process weight of 0.75 tons per hour.

(10) P11 shall not exceed 2.91 pounds per hour when operating at a process weight of 0.60 tons per hour.

(11) P12 shall not exceed 1.73 pounds per hour when operating at a process weight of 0.275 tons per hour.

(12) P13 shall not exceed 1.73 pounds per hour when operating at a process weight of 0.275 tons per hour.

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.2.2 Clean Charge

The natural gas fired reverberatory furnaces, identified as P1 – P3 and P7 – P11 and P13, shall only melt clean charge.

Compliance Determination Requirements

D.2.3 Testing Requirements [326 IAC 2-1.1-11]

Within 180 days of permit issuance, in order to show compliance with of 326 IAC 2-6.1 (MSOP) and to verify the use of alternative emission factors, the source must perform PM and PM_{10} performance testing for the natural gas fired reverberatory melt furnaces, identified as P1 – P3

and P5 – P13, utilizing methods as approved by the Commissioner. Any two (2) melt furnaces from Group 1 (P1, P2, P3, P7, P8, P9, and P10) with one (1) melt furnace from Group 2 (P5, P6, P12 and P13) along with the one (1) melt furnace, identified as P11, in Group 3, shall be tested. PM_{10} includes filterable and condensable PM_{10}.

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

D.2.4 Visible Emissions Notations

(a) Visible emission notations of the reverberatory melt furnaces stack exhaust (P1 – P3 and P7 – P13) 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.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.5 Record Keeping Requirements

(a) To document compliance with Condition D.2.4, the Permittee shall maintain records of daily visible emission notations of the melt furnaces stack exhaust.

(b) 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
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).

Company Name:	**Madison Precision Products, Inc.**
Address:	**94 East 400 North**
City:	**Madison, Indiana 47250**
Phone #:	**812-273-4702**
MSOP #:	**077-19827-00019**

I hereby certify that **Madison Precision Products, Inc.** is

☐ still in operation.
☐ no longer in operation.

I hereby certify that **Madison Precision Products, Inc.** is

☐ in compliance with the requirements of MSOP **077-19827-00019**.
☐ not in compliance with the requirements of MSOP **077-19827-00019**.

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 PERMI 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:_____PHONE NO. ( )_____
LOCATION: (CITY AND COUNTY)_____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP:_____
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:

_____

_____

Appendix A: Emissions Calculations
Emission Summary

Company Name: Madison Precision Products, Inc.
Address: 94 East 400 North, Madison, Indiana 47250
MSOP Permit No.: 077-19827-00019
MSOP NOC: 077-25329-00019
Reviewer: Hannah L. Desrosiers
Date: October 4, 2007

		Uncontrolled Potential Emissions (tons/year)									
		Emissions Generating Activity									
		Existing Emission Units						New Emission Units			
Category	Pollutant	Shotblasting	Melting Furnaces	Natural Gas Combustion from Furnaces	Natural Gas Combustion from Space Heaters	Fluxing	Welding	Melting Furnaces	Natural Gas Combustion from Furnaces	Fluxing	TOTAL
Criteria Pollutants	PM	61.42	5.51	0.21	0.28	6.81	0.002	0.23	0.01	0.55	**75.00**
	PM10	54.02	5.51	0.82	1.11	3.88	0.002	0.23	0.03	0.55	**66.15**
	SO2	0	0	0.07	0.09	0	0	0	2.06E-03	0	**0.16**
	NOx	0	0	10.84	14.62	0	0	0	0.34	0	**25.81**
	VOC	0	0	0.60	0.80	0	0	0	0.02	0	**1.42**
	CO	0	0	9.10	12.28	0	0	0	0.29	0	**21.67**
Hazardous Air Pollutants	Benzene	0	0	2.20E-04	3.07E-04	0	0	0	7.21E-06	0	**5.35E-04**
	Chlorine	0	0	0	0	0.11	0	0	0	0	**0.11**
	Dichlorobenzene	0	0	1.26E-04	1.75E-04	0	0	0	4.12E-06	0	**3.06E-04**
	Fluorine	0	0	0	0	0.88	0	0	0	0.07	**0.95**
	Formaldehyde	0	0	7.87E-03	0.01	0	0	0	2.58E-04	0	**0.02**
	Hexane	0	0	0.19	0.26	0	0	0	6.18E-03	0	**0.46**
	Toluene	0	0	3.57E-04	4.97E-04	0	0	0	1.17E-05	0	**8.66E-04**
	Cadmium	0	0	1.15E-04	1.61E-04	0	0	0	3.78E-06	0	**2.80E-04**
	Chromium	0	0	1.47E-04	2.05E-04	0	6.39E-13	0	4.81E-06	0	**3.56E-04**
	Lead	0	0	5.25E-05	7.31E-05	0	0	0	1.72E-06	0	**1.27E-04**
	Manganese	0	0	3.99E-05	5.56E-05	0	9.12E-05	0	1.31E-06	0	**1.88E-04**
	Nickel	0	0	2.20E-04	3.07E-04	0	8.53E-12	0	7.21E-06	0	**5.35E-04**
	Totals	**0.00**	**0.00**	**0.20**	**0.28**	**0.99**	**9.12E-05**	**0.00**	**0.01**	**0.07**	**1.54**
										Worse Case HAP	**0.95**

Total emissions based on rated capacity at 8,760 hours/year.

		Controlled Potential Emissions (tons/year)									
		Emissions Generating Activity									
		Existing Emission Units						New Emission Units			
Category	Pollutant	Shotblasting	Melting Furnaces	Natural Gas Combustion from Furnaces	Space Heaters	Fluxing	Welding	Melting Furnaces	Natural Gas Combustion from Furnaces	Fluxing	TOTAL
Criteria Pollutants	PM	0.61	5.51	0.21	0.28	6.81	0.002	0.23	0.01	0.55	**14.20**
	PM10	0.54	5.51	0.82	1.11	3.88	0.002	0.23	0.03	0.55	**12.67**
	SO2	0	0	0.07	0.09	0	0	0	2.06E-03	0	**1.6E-01**
	NOx	0	0	10.84	14.62	0	0	0	3.44E-01	0	**25.81**
	VOC	0	0	0.60	0.80	0	0	0	1.89E-02	0	**1.42**
	CO	0	0	9.10	12.28	0	0	0	2.89E-01	0	**21.67**
Hazardous Air Pollutants	Benzene	0	0	2.20E-04	3.07E-04	0	0	0	7.21E-06	0	**5.35E-04**
	Chlorine	0	0	0	0	0.11	0	0	0	0	**0.11**
	Dichlorobenzene	0	0	1.26E-04	1.75E-04	0	0	0	4.12E-06	0	**3.06E-04**
	Fluorine	0	0	0	0	0.88	0	0	0	0.07	**0.95**
	Formaldehyde	0	0	7.87E-03	0.01	0	0	0	2.58E-04	0	**0.02**
	Hexane	0	0	0.19	0.26	0	0	0	6.18E-03	0	**0.46**
	Toluene	0	0	3.57E-04	4.97E-04	0	0	0	1.17E-05	0	**8.66E-04**
	Cadmium	0	0	1.15E-04	1.61E-04	0	0	0	3.78E-06	0	**2.80E-04**
	Chromium	0	0	1.47E-04	2.05E-04	0	6.39E-13	0	4.81E-06	0	**3.56E-04**
	Lead	0	0	5.25E-05	7.31E-05	0	0	0	1.72E-06	0	**1.27E-04**
	Manganese	0	0	3.99E-05	5.56E-05	0	9.12E-05	0	1.31E-06	0	**1.88E-04**
	Nickel	0	0	2.20E-04	3.07E-04	0	8.53E-12	0	7.21E-06	0	**5.35E-04**
	Totals	**0.00**	**0.00**	**0.20**	**0.28**	**0.99**	**9.12E-05**	**0.00**	**0.01**	**0.07**	**1.54**
										Worse Case HAP	**0.95**

Total emissions based on rated capacity at 8,760 hours/year.

Appendix A: Emissions Calculations
Existing Emission Units Summary

Company Name: Madison Precision Products, Inc.
Address: 94 East 400 North, Madison, Indiana 47250
MSOP Permit No.: 077-19827-00019
MSOP NOC: 077-25329-00019
Reviewer: Hannah L. Desrosiers
Date: October 4, 2007

	Uncontrolled Potential Emissions							Controlled Potential Emissions						
	PM (tons/yr)	**PM-10** (tons/yr)	**SO2** (tons/yr)	**NOx** (tons/yr)	**VOC** (tons/yr)	**CO** (tons/yr)	**Total HAPs** (tons/yr)	**PM** (tons/yr)	**PM-10** (tons/yr)	**SO2** (tons/yr)	**NOx** (tons/yr)	**VOC** (tons/yr)	**CO** (tons/yr)	**Total HAPs** (tons/yr)
Shotblasting														
B1	10.07	7.05	0.00	0.00	0.00	0.00	0.00	0.101	0.071	0.00	0.00	0.00	0.00	0.00
B4	6.13	6.13	0.00	0.00	0.00	0.00	0.00	0.061	0.061	0.00	0.00	0.00	0.00	0.00
B6	14.0	14.0	0.00	0.00	0.00	0.00	0.00	0.140	0.140	0.00	0.00	0.00	0.00	0.00
B7	7.10	6.10	0.00	0.00	0.00	0.00	0.00	0.071	0.061	0.00	0.00	0.00	0.00	0.00
B8	24.10	20.72	0.00	0.00	0.00	0.00	0.00	0.241	0.207	0.00	0.00	0.00	0.00	0.00
Melting Furnaces	5.51	5.51	0.00	0.00	0.00	0.00	0.00	5.51	5.51	0.00	0.00	0.00	0.00	0.00
Natural Gas Combust from Furnaces	0.206	0.824	0.065	10.8	0.596	9.10	0.204	0.206	0.824	0.065	10.8	0.596	9.10	0.204
Fluxing	6.81	3.88	0.00	0.00	0.00	0.00	0.988	6.81	3.88	0.00	0.00	0.00	0.00	0.988
Space heaters	0.278	1.11	0.088	14.62	0.80	12.28	0.276	0.278	1.11	0.088	14.62	0.80	12.28	0.276
Welding	0.002	0.002	0.00	0.00	0.00	0.00	0.00	0.002	0.002	0.00	0.00	0.00	0.00	0.00
Total	**74.2**	**65.3**	**0.153**	**25.5**	**1.40**	**21.4**	**1.47**	**13.4**	**11.9**	**0.153**	**25.5**	**1.40**	**21.4**	**1.47**

Appendix A: Emission Calculations
Revision Emissions Summary

Company Name: Madison Precision Products, Inc.
Address: 94 East 400 North, Madison, Indiana 47250
MSOP Permit No.: 077-19827-00019
MSOP NOC: 077-25329-00019
Reviewer: Hannah L. Desrosiers
Date: October 4, 2007

PTE of the New Aluminum Melting Furnace P-13 (tons/yr)

	PM	PM10	SO_2	NOx	VOC	CO	Fluorine*	Total HAPs
Natural Gas Combustion	0.01	0.03	2.06E-03	0.34	0.02	0.29	0.00	6.48E-03
Furnace (Aluminum Melting)	0.23	0.23	0.00	0.00	0.00	0.00	0.00	2.75E-03
Flux	0.55	0.55	0.00	0.00	0.00	0.00	0.07	0.07
Total	**0.78**	**0.80**	**2.06E-03**	**0.34**	**0.02**	**0.29**	**0.07**	**0.08**

*The single HAP with the highest PTE is fluorine.

Appendix A: Emission Calculations
Natural Gas Combustion Emissions from New Aluminum Melting Furnace P-13

Company Name: Madison Precision Products, Inc.
Address: 94 East 400 North, Madison, Indiana 47250
MSOP Permit No.: 077-19827-00019
MSOP NOC: 077-25329-00019
Reviewer: Hannah L. Desrosiers
Date: October 4, 2007

Total Heat Input Capacity MMBtu/hr	Potential Throughput MMscf/yr
0.80	6.87

	Pollutant					
	PM*	PM10*	SO_2	NOx **	VOC	CO
Emission Factor (lbs/MMscf)	1.9	7.6	0.6	100	5.5	84.0
Potential to Emit (tons/yr)	0.01	0.03	0.002	0.34	0.02	0.29

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	7.214E-06	4.122E-06	2.576E-04	6.184E-03	1.168E-05

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.718E-06	3.779E-06	4.809E-06	1.305E-06	7.214E-06

Total Haps	**0.0065**	**tpy**

Note:
* PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM combined.
**Emission factor for NOx (Uncontrolled) = 100 lb/MMscf.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (7/98).
All Emission factors are based on normal firing.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4

Methodology:
• Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMscf/1,020 MMBtu
• PTE (tons/yr) = Potential Throughput (MMscf/yr) x Emission Factor (lbs/MMscf) x 1 ton/2,000 lbs

Appendix A: Emission Calculations
Particulate and HAP Emissions from New Aluminum Melting Furnace P-13

Company Name: Madison Precision Products, Inc.
Address: 94 East 400 North, Madison, Indiana 47250
MSOP Permit No.: 077-19827-00019
MSOP NOC: 077-25329-00019
Reviewer: Hannah L. Desrosiers
Date: October 4, 2007

Maximum Capacity*	Maximum Potential Throughput	Flux Rate*	Weight % Fluorine*
550 lbs/hr	2,409 tons/yr	0.25 lbs/hr	6.65%

1. Reverberatory Furnace

	PM	PM10
Emission Factor (lbs/ton produced)**	0.19	0.19
Potential to Emit (tons/yr)	0.23	0.23

2. Reverberatory Furnace (Metals)

	Chromium	Lead	Manganese	Nickel	Selenium
Weight % *	0.10%	0.10%	0.50%	0.35%	0.15%
Potential to Emit (tons/yr)	2.29E-04	2.29E-04	1.14E-03	8.01E-04	3.43E-04

3. Fluxing (Fluorine)

	PM (fluorine)	PM10 (fluorine)	Fluorine
Emission Factor (lbs/ton flux)**	1000	1000	N/A
Potential to Emit (tons/yr)	0.55	0.55	0.07

* This information is provided by the source.
**Emission factors are from the TSD for MSOP 077-19827-00019 issued on December 7, 2006. M077-18927-00019 is the current operating permit for this source.
Note: The operating permit used emission factors from FIRE version 6.01 and contains testing requirements to verify compliance with 326 IAC 2-6.1 (MSOP).

Methodology
• Maximum Potential Throughput (tons/yr) = Maximum Capacity (lbs/hr) * 8,760 hrs/yr * 1 ton/2,000 lbs
• PTE PM/PM10 from Reverberatory Furnace = Maximum Potential Throughput (tons/yr) * Emission Factor (lbs/ton produced) * 1 ton/2,000 lbs
• PTE Metals from Reverberatory Furnace = Potential to Emit PM from Reverberatory Furnace (tons/yr) * Weight % Metal
• PTE PM/PM10 from Fluxing = Flux Rate (lbs/hr) * 8,760 hrs/yr * 1 ton/2,000 lbs * Emission Factor (lbs/ton fluorine) * 1 ton/2,000 lbs
• PTE of Fluorine from Fluxing = Flux Rate (lbs/hr) * Weight % Fluorine * 8,760 hrs/yr * 1 ton/2,000 lbs