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: August 27, 2012

RE: Madison Precision Products, Inc. / 077-32177-00019

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

August 27, 2012

Re: 077-32177-00019
First Administrative Amendment to
M077-19827-00019

Dear Louis Alexander:

Madison Precision Products, Inc. was issued a Minor Source Operating Permit (MSOP) Renewal No. M077-19827-00019 on December 7, 2006 for a stationary aluminum automotive parts manufacturing plant located at 94 East 400 North, Madison, Indiana. On August 2, 2012, the Office of Air Quality (OAQ) received an application from the source requesting that the permit be amended to construct and operate two (2) new aluminum melting furnaces, similar to the existing melting furnaces already permitted. The two new furnaces will use a flux material and will melt only clean charge.

This change to the permit is considered an administrative amendment pursuant to 326 IAC 2-6.1(d)(8), because the permit is amended to incorporate a modification that adds an emissions unit or units of the same type that is already permitted or replaces an existing unit and that will comply with the same applicable requirements and permit terms and conditions as the existing emission unit, and the modification does not result in a potential to emit greater than the thresholds in 326 IAC 2-2 (PSD) or 326 IAC 2-3 (Emission Offset) or would result in a potential to emit equal to or greater than the thresholds in 326 IAC 2-7 (Part 70 Operating Permit).

The following are the new emissions units:

(a) One (1) natural gas-fired reverberatory aluminum melt furnace, identified as P15, approved for construction in 2012, melting only clean charge, with a maximum heat input capacity of 1.707 MMBtu/hr, with a maximum melt capacity of 700 pounds of aluminum per hour, using no controls and exhausting through stack P-15. This furnace uses a flourine-base flux at a maximum usage rate of 0.6 pounds per hour.

(b) One (1) natural gas-fired reverberatory aluminum melt furnace, identified as P16, approved for construction in 2012, melting only clean charge, with a maximum heat input capacity of 2.390 MMBtu/hr, with a maximum melt capacity of 1500 pounds of aluminum per hour, using no controls and exhausting through stack P-16. This furnace uses a flourine-base flux at a maximum usage rate of 0.6 pounds per hour.

The PTE of the two new melt furnaces P15 and P16 is as follows:

	PTE of Proposed Modification (tons/year)									
Process/ Emission Unit	PM	PM10	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e	Total HAPs	Worst Single HAP
Melt Furnaces P15, P16 Melt Process	0.92	0.92	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Process/ Emission Unit	PTE of Proposed Modification (tons/year)									
	PM	PM10	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e	Total HAPs	Worst Single HAP
Melt Furnaces P15, P16 Flux	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07 (Flourine)
Melt Furnaces P15, P16 Combustion	0.03	0.13	0.13	0.01	1.76	0.10	1.48	2,124.01	0.0332	0.03167 (Hexane)
Total PTE of Proposed Modification	**0.95**	**1.05**	**1.05**	**0.01**	**1.76**	**0.10**	**1.48**	**2,124.01**	**0.1032**	**0.07 (Flourine)**

The uncontrolled/unlimited potential to emit of the entire source after the addition of this emission unit will continue to be within the threshold levels specified in 326 IAC 2-5.1 (MSOP). (See Appendix A for the calculations).

The addition of the emission unit will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset) or 326 IAC 2-7 (Part 70).

See Appendix A for the calculation and the PTE of the entire source after the addition of the emission unit.

PTE of the Entire Source After Issuance of the MSOP Administrative Amendment

The table below summarizes the potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP Adminstrative Amendment (tons/year)									
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e**	Total HAPs	Worst Single HAP
Melt Furnaces - Melt Process	~~5.97~~ **6.26**	~~5.97~~ **6.26**	~~5.97~~ **6.26**	0.00	0.00	0.00	0.00	0.00	0.06	0.03 (Mn)
Melt Furnaces - Flux	~~7.90~~ **8.40**	~~4.97~~ **5.96**	~~4.97~~ **5.96**	0.00	0.00	0.00	0.00	0.00	~~1.13~~ **3.03**	~~1.02~~ **1.72** (Flourine)
Melt Furnaces - Combustion	~~0.22~~ **0.23**	~~0.88~~ **0.90**	~~0.88~~ **0.90**	0.07	~~11.53~~ **11.91**	~~0.63~~ **0.65**	~~9.68~~ **10.00**	~~0.00~~ **14374.51**	~~0.21~~ **0.225**	~~0.20~~ **0.214** (Hexane)
Other Combustion	~~0.28~~ **0.27**	~~1.11~~ **1.09**	~~1.11~~ **1.09**	0.09	~~14.62~~ **14.33**	~~0.80~~ **0.79**	~~12.28~~ **12.04**	~~0.00~~ **17305.20**	~~0.28~~ **0.271**	~~0.26~~ **0.258** (Hexane)
Shotblast	61.61	54.21	54.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Welding	0.002	0.002	0.00	0.00	0.00	0.00	0.00	0.00	9.1E-5	9.1E-5 (Mn)
Total PTE of Entire Source	~~75.98~~ **76.62**	~~67.14~~ **68.43**	~~67.14~~ **68.43**	0.16	~~26.15~~ **26.24**	1.44	~~21.96~~ **22.04**	~~0.00~~ **31,679.71**	~~1.68~~ **3.53**	~~1.02~~ **1.72** (Flourine)
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	100	250	250	250	250	100,000	NA	NA

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP Adminstrative Amendment (tons/year)									
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e**	Total HAPs	Worst Single HAP
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA	NA

*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
**The 100,000 CO_2e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

Note: "Other Combustion" emissions shown above vary slightly from the existing permit documents because of the change in the conversion factor from MMBtu/hr to MMCF/yr. This has been corrected in this table, but was not a part of the revision request from the source.

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this MSOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted)

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP Adminstrative Amendment (tons/year)									
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e**	Total HAPs	Worst Single HAP
Melt Furnaces - Melt Process	6.26	6.26	6.26	0.00	0.00	0.00	0.00	0.00	0.06	0.03 (Mn)
Melt Furnaces - Flux	8.40	5.96	5.96	0.00	0.00	0.00	0.00	0.00	3.03	1.72 (Flourine)
Melt Furnaces - Combustion	0.23	0.90	0.90	0.07	11.91	0.65	10.00	14374.51	0.225	0.214 (Hexane)
Other Combustion	0.27	1.09	1.09	0.09	14.33	0.79	12.04	17305.20	0.271	0.258 (Hexane)
Shotblast	61.61	54.21	54.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Welding	0.002	0.002	0.00	0.00	0.00	0.00	0.00	0.00	9.1E-5	9.1E-5 (Mn)
Total PTE of Entire Source	**76.62**	**68.43**	**68.43**	**0.16**	**26.24**	**1.44**	**22.04**	**31,679.71**	**3.53**	**1.72** (Flourine)
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	100	250	250	250	250	100,000	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA	NA

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP Adminstrative Amendment (tons/year)									
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	GHGs as CO_2e**	Total HAPs	Worst Single HAP
*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **The 100,000 CO_2e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

The following requirements were evaluated with this revision:

(a) There are no new New Source Performance Standards (NSPS) applicable to the two new furnaces.

(b) There are no new National Emissions Standards for Hazardous Air Pollutants (NESHAP) applicable to the new furnaces.

(1) National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Secondary Aluminum Production Facilities (40 CFR 63, Subpart RRR) does not apply to this source because the source only melts clean charge, and, therefore, does not fit the definition of a secondary aluminum production facility, as defined in 63.1503.

(2) National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Secondary Aluminum, Copper, and Other Nonferrous Foundries (40 CFR 63, Subpart ZZZZZZ) does not apply to this source because the source operates a die casting facility, and, pursuant to 63.11556, is exempt from this rule.

(c) The following state rules were evaluated for applicability to the new furnaces:

326 IAC 6-3-2 (Particulate Emissions Limitations for Manufacturing Processes)
The two new melt furnaces P15 and P16 are subject to the requirements of 326 IAC 6-3-2 because each is considered a manufacturing process and each has the potential to emit particulate. Therefore, the requirements of 326 IAC 6-3-2 apply.

The Process Weight Rate for each furnace was calculated using the maximum throughput melting capacity of each furnace, in tons per hour, plus the flux added to each furnace, in tons per hour. The Process Weight Rates (PWR) for the two new furnaces are as follows:

P15 PWR = (700 lb/hr metal/2000 lb/tn = 0.35 tn/hr) + (0.6 lb/hr flux/2000 lb/tn = 0.0003 tn/hr)
Total PWR for P15 = 0.35 + 0.0003 = 0.350

P16 PWR = (1500 lb/hr metal/2000 lb/tn = 0.75 tn/hr) + (0.6 lb/hr flux/2000 lb/tn = 0.0003 tn/hr)
Total PWR for P16 = 0.75 + 0.0003 = 0.750

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

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

Therefore, pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the melting furnaces shall not exceed the following:

(1) The PM emissions for furnace P15 shall not exceed 2.03 pounds per hour when operating at a process weight rate of 0.350 tons per hour.

(2) The PM emissions for furnace P16 shall not exceed 3.38 pounds per hour when operating at a process weight rate of 0.750 tons per hour.

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

(a) In order to render 326 IAC 2-2 (PSD) not applicable, the Permittee shall melt only clean charge in the reverberatory furnaces (identified as P15 and P16) at all times.

(b) Clean charge shall be defined as furnace charge materials, including molten aluminum; T-bar; sow; ingot; billet; pig; aluminum scrap known by the owner to be entirely free of paints, coatings, and lubricants; uncoated/unpainted aluminum chips that have been thermally dried or treated by a centrifugal cleaner; aluminum scrap dried at 365°C (650°F) or higher; aluminum scrap delacquered/decoated at 483°C (900°F) or higher, and runaround scrap.

Note: The definition of clean charge above applies to all furnaces, including the new melt furnaces in this permit revision. However, the existing permit requires clean charge, but does not define clean charge. This additional description will be added to the permit to apply to all existing melt furnaces at this source. This is a Title I change.

Compliance Determination Requirements

Testing is not required for the two new melt furnaces P15 and P16. They are similar to existing melt furnaces P10, P11, and P12, which were stack tested on July 7, 2007, and confirmed the emission factors used in the calculations for all furnaces in this facility. Emissions calculations, shown in Appendix A of this document, use the same emission factors for the two new melt furnaces P15 and P16. Therefore, testing is not required, as long as the furnaces remain similar and the processes remain identical.

Compliance Monitoring Requirements

Visible Emissions Notations of the stack exhausts serving the new melt furnaces P15 and P16 will be required, using the same requirements of all the existing furnace exhausts.

Section A.2 and Section D.2 of the permit have been changed to add the description and all applicable requirements for the two new aluminum melting furnaces, as follows:

A.2 Emission Units and Pollution Control Equipment Summary

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

(a) ---

(t) One (1) natural gas-fired reverberatory aluminum melt furnace, identified as P15, approved for construction in 2012, melting only clean charge, with a maximum heat input capacity of 1.707 MMBtu/hr, with a maximum melt capacity of 700 pounds of aluminum per hour, using no controls and exhausting through stack P-15. This furnace uses a flourine-base flux at a maximum usage rate of 0.6 pounds per hour.

(u) One (1) natural gas-fired reverberatory aluminum melt furnace, identified as P16, approved for construction in 2012, melting only clean charge, with a maximum heat input capacity of 2.390 MMBtu/hr, with a maximum melt capacity of 1500 pounds of aluminum per hour, using no controls and exhausting through stack P-16. This furnace uses a flourine-base flux at a maximum usage rate of 0.6 pounds per hour.

SECTION D.2 FACILITY OPERATION CONDITIONS

(a) ---

(t) One (1) natural gas-fired reverberatory aluminum melt furnace, identified as P15, approved for construction in 2012, melting only clean charge, with a maximum heat input capacity of 1.707 MMBtu/hr, with a maximum melt capacity of 700 pounds of aluminum per hour, using no controls and exhausting through stack P-15. This furnace uses a flourine-base flux at a maximum usage rate of 0.6 pounds per hour.

(u) One (1) natural gas-fired reverberatory aluminum melt furnace, identified as P16, approved for construction in 2012, melting only clean charge, with a maximum heat input capacity of 2.390 MMBtu/hr, with a maximum melt capacity of 1500 pounds of aluminum per hour, using no controls and exhausting through stack P-16. This furnace uses a flourine-base flux at a maximum usage rate of 0.6 pounds per hour.

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:

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(13) P15 shall not exceed 2.03 pounds per hour when operating at a process weight of 0.350 tons per hour.

(14) P16 shall not exceed 3.38 pounds per hour when operating at a process weight of 0.750 tons per hour.

D.2.2 Clean Charge

(a) The natural gas fired reverberatory furnaces, identified as P1, P3, and P5 – P1**4**6, shall only melt clean charge.

(b) Clean charge shall be defined as furnace charge materials, including molten aluminum; T-bar; sow; ingot; billet; pig; aluminum scrap known by the owner to be entirely free of paints, coatings, and lubricants; uncoated/unpainted aluminum chips that have been thermally dried or treated by a centrifugal cleaner; aluminum scrap dried at 365°C (650°F) or higher; aluminum scrap delacquered/decoated at 483°C (900°F) or higher, and runaround scrap.

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

D.2.5 Visible Emissions Notations

(a) Visible emission notations of the reverberatory melt furnaces stack exhaust (P1, P3, and P5 – P1**4**6) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

Additional Changes

IDEM, OAQ has decided to make additional revisions to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

1. Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit (PTE) 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the calculations, the unlimited PTE GHGs from the entire source is less than 100,000 tons of CO2e per year (see Appendix A for the calculations). This did not require any changes to the permit.

2. Section A.1 of the permit and the reporting forms have been revised to remove all references to the source mailing address. IDEM, OAQ will continue to maintain records of the mailing address.

4. For clarity, IDEM has changed references to the general conditions: "in accordance with Section B", in accordance with Section C", or other similar language to "Section C...contains the Permittee's obligations with regard to the records required by this condition."

5. 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 timelines have been switched to "no later than" or "not later than" except when the underlying rule states "within."

6. IDEM has determined that rather than having a certification condition and various references throughout the permit as to whether 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.

7. IDEM has decided to clarify the requirements of Section B – Preventive Maintenance Plan and to add a new paragraph (b) to handle a future situation where the Permittee adds units that need preventive maintenance plans.

9. IDEM has revised the language of the Section B - Permit Renewal and Section B - Termination of Right to Operate to change the MSOP renewal application due date to one hundred twenty (120) prior to expiration of the current permit in order to match the rule.

10. IDEM has revised Section B - Permit Renewal paragraph (c) to state which rule establishes the authority to set a deadline for the Permittee to submit additional information.

11. IDEM has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.

12. IDEM has revised Section C - Incineration to more closely reflect the two underlying rules.

13. IDEM has revised the language of the Section C - Asbestos Abatement Projects to change the terminology "Accredited" to "Licensed" in order to match the rule.

14. IDEM has removed the first paragraph of Section C - Performance Testing as due to the fact that specific testing conditions elsewhere in the permit will specify the timeline and procedures.

15. IDEM has removed Section C - Monitoring Methods. The conditions that require the monitoring

or testing, if required, state what methods shall be used.

16. IDEM has revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the previously listed items are required to be recorded elsewhere in the permit.

17. IDEM has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - Response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was switched from "the receipt of the test results" to "the date of the test." There was confusion if the "receipt" was by IDEM, the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.

18. The voice of paragraph (b) of Section C - General Record Keeping Requirements has been changed to clearly indicate that it is the Permittee that must follow the requirements of the paragraph.

21. The word "status" has been added to Section D - Record Keeping Requirements The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.

The permit has been revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

COVER PAGE

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~~ **MSOP under 326 IAC 2-6.1.**

...

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

...

~~Mailing Address: 94 East 400 North, Madison, Indiana 47250~~

...

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.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.~~12~~**11** 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:~~

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

(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) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) 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) 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 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.

~~The PMP extension notification does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

(~~b~~**c**) 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~~**d**) 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.~~16~~**15** 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 ~~certification~~ **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

...

(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.~~17~~**16** Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

...

(b) ---

~~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~~ **no later than** thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

...

B.~~19~~**18** Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

...

(b) ---

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).

...

B.~~20~~**19** 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.

...

C.3 Opacity [326 IAC 5-1]

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

...

C.5 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

...

(d) ---

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

...

(g) Indiana ~~Accredited~~**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 ~~Accredited~~**Licensed** Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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) For performance testing required by this permit, a ~~A~~ test protocol, except as provided elsewhere in this permit, shall be submitted to:

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. ~~The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

...

~~C.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.~~11~~**10** Response to Excursions or Exceedances

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

(a) ~~Upon detecting an excursion or exceedance, the~~ **The** Permittee shall **take reasonable response steps to** 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 **excess** 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~~**. The response** may include, but ~~are~~**is** not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned **or are returning** 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.~~ **normal or usual manner of operation.**

(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; **and/or**

(3) inspection of the control device, associated capture system, and the process.

...

(e) The Permittee shall ~~maintain the following records:~~ **record reasonable response steps taken.**

~~(1) monitoring data;~~

~~(2) monitor performance data, if applicable; and~~

~~(3) corrective actions taken.~~

C.~~12~~**11** 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~~**its** response actions to IDEM, OAQ, ~~within thirty~~ **no later than** ~~(30)~~

~~days of receipt of the test results~~**seventy-five (75) days after the date of the test**. ~~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~~**no later than** one hundred ~~twenty (120) days of receipt of the original test results~~ **eighty (180) days after the date of the test**. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred ~~twenty (120)~~ **eighty (180)** 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).~~

...

C.14**13** General Record Keeping Requirements [326 IAC 2-6.1-5]

...

(b) Unless otherwise specified in this permit, **for** all record keeping requirements not already legally required**, the Permittee shall be allowed up to** ~~shall be implemented within~~ ninety (90) days **from the date** of permit issuance **or the date of initial start-up, whichever is later, to begin such record keeping**.

...

D.2.5 Visible Emissions Notations

...

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. ~~in accordance with~~ Section C - Response to Excursions or Exceedances **contains the Permittee's obligation with regard to the reasonable response steps required by this condition**. Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

...

D.2.6 Record Keeping Requirements

(a) To document **the** compliance **status** with Condition D.2.5 the Permittee shall maintain daily records of the visible emission notations of the melt furnace stack exhausts **The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).**

(b) ~~All records shall be maintained in accordance with~~ Section C - General Record Keeping Requirements~~,~~ of this permit **contains the Permittee's obligations with regard to the records required by this condition**.

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

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 Jack Harmon, of my staff, at 317-233-4228 or 1-800-451-6027, and ask for extension 3-4228.

Sincerely,

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Appendix A

IC/jh

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

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

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 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.: 077-19827-00019	
Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: December 7, 2006 Expiration Date: December 7, 2016

First Notice-Only Change No. 077-24369-00019, issued on March 27, 2007.
Second Notice-Only Change No. 077-25329-00019, issued on October 29, 2007
Third Notice-Only Change No. 077-26012-00019, issued on February 5, 2008
Fourth Notice-Only Change No. 077-26452-00019, issued on May 2, 2008
Fifth Notice-Only Change No. 077-27775-00019, issued on April 23, 2009

First Administrative Amendment No. 077-32177-00019	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: August 27, 2012 Expiration Date: December 7, 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 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
General Source Phone Number:	812 - 273 - 4702
SIC Code:	3363
County Location:	Jefferson (Madison Township)
Source Location Status:	Nonattainment for $PM_{2.5}$ (Madison Township) 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) Two (2) natural gas fired reverberatory melt furnaces, identified as P1 and P3, installed by 1993, melting only clean charge, with maximum heat input capacities of 2.53, and 3.0 million British thermal units per hour, exhausting to stacks P1 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) One (1) natural gas-fired reverberatory melt furnace, identified as P14, approved for construction in 2008, melting only clean charge, with a maximum heat input capacity of 0.80 million British thermal units per hour, exhausting to stack P14, and with a maximum throughput capacity of 550 pounds of aluminum ingots per hour.

(n) 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.

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

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

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

(r) 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.

(s) One (1) mechanical shot blasting unit, identified as B-9, constructed in April 2009, equipped with an integral dust collector, exhausting inside the building, with a maximum blast rate of 440 pounds per hour of zinc shot.

(t) One (1) natural gas-fired reverberatory aluminum melt furnace, identified as P15, approved for construction in 2012, melting only clean charge, with a maximum heat input capacity of 1.707 MMBtu/hr, with a maximum melt capacity of 700 pounds of aluminum per hour, using no controls and exhausting through stack P-15. This furnace uses a flourine-base flux at a maximum usage rate of 0.6 pounds per hour.

(u) One (1) natural gas-fired reverberatory aluminum melt furnace, identified as P16, approved for construction in 2012, melting only clean charge, with a maximum heat input capacity of 2.390 MMBtu/hr, with a maximum melt capacity of 1500 pounds of aluminum per hour, using no controls and exhausting through stack P-16. This furnace uses a flourine-base flux at a maximum usage rate of 0.6 pounds per hour.

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 ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.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. 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 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, 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.11 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

(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) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) 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) 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 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.

(c) 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.

(d) 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.12 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.13 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.14 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 and Enforcement Branch, 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.15 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 Administation and Support Section, 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, 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.16 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
Permit Administation 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.17 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.18 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 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.19 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.20 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 5-1-1 (Applicability) and 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
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. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements

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

(a) For performance testing required by this permit, a test protocol, except as provided elsewhere in 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

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.

(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 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.10 Response to Excursions and Exceedances [326 IAC 2-7-5][326 IAC 2-7-6]

(a) The Permittee shall take reasonable response steps to 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 excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning 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 normal or usual manner of operation.

(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; and/or

(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 record reasonable response steps taken.

C.11 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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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.

Record Keeping and Reporting Requirements

C.12 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.13 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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

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 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) 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.

(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 emissions~~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) Two (2) natural gas fired reverberatory melt furnaces, identified as P1 and P3, installed by 1993, melting only clean charge, with maximum heat input capacities of 2.53, and 3.0 million British thermal units per hour, exhausting to stacks P1 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) One (1) natural gas-fired reverberatory melt furnace, identified as P14, approved for construction in 2008, melting only clean charge, with a maximum heat input capacity of 0.80 million British thermal units per hour, exhausting to stack P14, and with a maximum throughput capacity of 550 pounds of aluminum ingots per hour.

(n) 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.

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

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

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

(r) 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.

(s) One (1) mechanical shot blasting unit, identified as B-9, constructed in 2009, equipped with an integral dust collector, exhausting inside the building, with a maximum blast rate of 440 pounds per hour of zinc shot.

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

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

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

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

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

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

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

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

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

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

(12) P14 shall not exceed 1.73 pounds per hour when operating at a process weight of 0.275 tons per hour.

(13) P15 shall not exceed 2.03 pounds per hour when operating at a process weight of 0.350 tons per hour.

(14) P16 shall not exceed 3.38 pounds per hour when operating at a process weight of 0.750 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

(a) The natural gas fired reverberatory furnaces, identified as P1, P3, and P5 – P16, shall only melt clean charge.

(b) Clean charge shall be defined as furnace charge materials, including molten aluminum; T-bar; sow; ingot; billet; pig; aluminum scrap known by the owner to be entirely free of paints, coatings, and lubricants; uncoated/unpainted aluminum chips that have been thermally dried or treated by a centrifugal cleaner; aluminum scrap dried at 365ºC (650ºF) or higher; aluminum scrap delacquered/decoated at 483ºC (900ºF) or higher, and runaround scrap.

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 – P14, utilizing methods as approved by the Commissioner. Any two (2) melt furnaces from Group 1 (P1, P3, P7, P8, P9, and P10) with one (1) melt furnace from Group 2 (P5, P6, P12, P13, and P14) along with the one (1) melt furnace, identified as P11, in Group 3, shall be tested. PM_{10} includes filterable and condensable PM_{10}.

D.2.4 Dust Collector Requirements

The dust collector associated with the shot blasting unit, B-9, must be in operation at all times the shot blasting unit is in operation.

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

D.2.5 Visible Emissions Notations

(a) Visible emission notations of the reverberatory melt furnaces stack exhaust (P1, P3, and P5 – P16) 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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.2.6 Record Keeping Requirements

(a) To document the compliance status with Condition D.2.5 the Permittee shall maintain daily records of the visible emission notations of the melt furnace stack exhausts The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).

(b) Section C - General Record Keeping Requirements~~,~~ of this permit contains the

Permittee's obligations with regard to the records required by this condition.

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:	**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
Summary of Emissions

Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madision, Indiana 47250
Permit Number: 077-19827-00019
Permit Revision Number: 077-32177-00019
Reviewer: Jack Harmon
Date: 2012

Uncontrolled Potential to Emit (tons/yr)

Emission Unit/Process	PM	PM10	PM2.5	SO2	Nox	VOC	CO	Co2e, as GHG	Total HAPs	Worst HAP	HAP
Melt Furnaces - Melt Process	6.26	6.26	6.26	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	(n/a)
Melt Furnaces - Flux Process	8.40	5.96	5.96	0.00	0.00	0.00	0.00	0.00	3.03E+00	1.72E+00	(Flourine)
Melt Furnaces - Combustion	0.23	0.90	0.90	0.07	11.91	0.65	10.00	14374.512	2.25E-01	2.14E-01	(Hexane)
Other Combustion	0.27	1.09	1.09	0.09	14.33	0.79	12.04	17305.197	2.71E-01	2.58E-01	(Hexane)
Shotblasting	61.45	54.21	54.21	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	(n/a)
Welding	0.002	0.002	0.002	0.00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	(n/a)
Total Uncontrolled Emissions	76.62	68.43	68.43	0.16	26.24	1.44	22.04	31,679.71	3.53E+00	1.72E+00	(Flourine)

Appendix A: Emissions Calculations
Revision Summary

Company Name: Madison Precision Products, Inc.

Address City IN Zip: 94 East 400 North, Madision, Indiana 47250

Permit Number: 077-19827-00019
Permit Revision Number: 077-32177-00019
Reviewer: Jack Harmon
Date: 2012

EU	MMBtu/hr	Metal Throughput (lb/hr)	Flux (lb/hr)
Furnace P 15	1.707	700	0.6
Furnace P 16	2.39	1500	0.6
Total	4.097	2200	1.2

Add Furnaces P15, P16

1. Combustion

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
4.097	1020	35.2

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in t	0.03	0.00	0.00	0.01	1.76	0.10	1.48

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combi
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirc

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Bt
MMCF = 1,000,000 Cubic Feet of
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,(
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,00

HAPs

	HAPs - Organics					Totals
	Benzene	Dichlorobenzene	Formaldehyde	**Hexane**	Toluene	
Emission Factor in lb/M	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in t	3.695E-05	2.111E-05	1.319E-03	**3.167E-02**	5.982E-05	3.310E-02

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	
Emission Factor in lb/M	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in t	8.797E-06	1.935E-05	2.463E-05	6.685E-06	3.695E-05	9.641E-05
					Total HAPs	**3.320E-02**

Methodology is the same as page 1.

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

Greenhouse Gas Calculations updated 7/11

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	2,111	0.0	0.0
Summed Potential Emissions in tons/yr		2,111	
CO2e Total in tons/yr		2,124.01	

Methodology
The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 updated 7/11

2. Melt Process

Maximum Capacity*	Maximum Potential Throughput	Flux Rate*	Weight % Fluorine*
2,200 lbs/hr	9,636 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)	0.92	0.92

2. Fluxing (Fluorine)

	PM (fluorine)	PM10 (fluorine)	Fluorine
Emission Factor (lbs/ton flux)**	0.01	0.01	0.0665
Potential to Emit (tons/yr)	0.00	0.00	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.
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) *
• 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

Appendix A: Secondary Metal Production
Melt Process Emissions - All Furnaces
Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madision, Indiana 47250
Permit Number: 077-19827-00019
Permit Revision Number: 077-32177-00019
Reviewer: Jack Harmon
Date: 2012

All Furnaces
SCC# 3-04-001-03
Smelting Furnace/Reverberatory

See Emission Units Summary on last page of these calculations

TYPE OF MATERIAL		Throughput LBS/HR	1 TON/2000 lbs	TON/HR		
Aluminum		15,050	2000	7.525		
	PM * lbs/ton Produced	**PM10 * lbs/ton Produced**	**SOx lbs/ton Produced**	**NOx lbs/ton Produced**	**VOC * lbs/ton Produced**	**CO lbs/tons Produced**
	0.19	0.19	0	0	0	--
Potential Emissions lbs/hr	1.43	1.43	0.0	0.0	0.0	--
Potential Emissions lbs/day	34.3	34.3	0.0	0.0	0.0	--
Potential Emissions tons/year	6.26	6.26	0.0	0.0	0.0	--

* Note: Emission factor is from FIRE version 6.01.
Emission factors which are not denoted by a "*" are from older versions of FIRE and were not included in FIRE version 6.01 for various reasons.

Appendix A: Secondary Metal Production
Furnace Flux Emissions

Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madison, IN 47250
Permit Number: M077-19827-00019
Permit Revisions No.: 077-32177-00019
Reviewer: Jack Harmon
Application Date: 2012

All Furnace Fluxing

See Emission Units Summary on last page of these calculations

Smelting Furnace/Reverberatory

TYPE OF MATERIAL		Throughput LBS/HR	1 TON/2000 lbs	TON/HR			
Flux - Chlorine Base		0.625	2000	0.0003125			
	PM * lbs/ton Chlorine	**PM10 * lbs/ton Chlorine**	**SOx lbs/ton Chlorine**	**NOx lbs/ton Chlorine**	**VOC lbs/ton Chlorine**	**CO lbs/tons Chlorine**	**HAP (Chlorine)**
	750	532	0	0	0	--	62.93%
Potential Emissions lbs/hr	0.23	0.17	0.0	0.0	0.0	--	0.393
Potential Emissions lbs/day	5.6	4.0	0.0	0.0	0.0	--	
Potential Emissions tons/year	1.03	0.73	0.0	0.0	0.0	--	1.723

TYPE OF MATERIAL		Throughput LBS/HR	1 TON/2000 lbs	TON/HR			
Flux - Flourine Base		4.491	2000	0.0022455			
	PM * lbs/ton Flourine	**PM10 * lbs/ton Flourine**	**SOx lbs/ton Flourine**	**NOx lbs/ton Flourine**	**VOC lbs/ton Flourine**	**CO lbs/tons Flourine**	**HAP (Flourine)**
	750	532	0.00	0.00	0.00	0.00	6.65%
Potential Emissions lbs/hr	1.68	1.195	0.0	0.0	0.0	0	0.299
Potential Emissions lbs/day	40.4	28.7	0.0	0.0	0.0	0	
Potential Emissions tons/year	7.38	5.23	0.0	0.0	0.0	0	1.308

* Note: Emission factor is from FIRE version 6.01.
Emission factors which are not denoted by a "*" are from older versions of FIRE and were not included in FIRE version 6.01 for various

	PM *	**PM10 ***	**SOx**	**NOx**	**VOC**	**CO**	**HAP (Total)**
Total All Fluxing	8.40	5.96	0.00	0.00	0.00	0.00	3.03

Appendix A: Emissions Calculations
Natural Gas Combustion Only - for All Furnaces
MM BTU/HR <100

Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madision, Indiana 47250
Permit Number: 077-19827-00019
Permit Revision Number: 077-32177-00019
Reviewer: Jack Harmon
Date: 2012

All Furnaces

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
27.727	1020	238.1

See Emission Units Summary on last page of these calculations

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.23	0.90	0.90	0.07	11.91	0.65	10.00

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 3

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Ga
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMB
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPs

	HAPs - Organics					Totals
	Benzene	Dichlorobenzen	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	2.500E-04	1.429E-04	8.930E-03	**2.143E-01**	4.048E-04	2.240E-01

	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	5.953E-05	1.310E-04	1.667E-04	4.524E-05	2.500E-04	6.525E-04
					Total HAPs	**2.247E-01**

Methodology is the same as page 1.

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

Greenhouse Gas Calculations updated 7/11

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	14,288	0.3	0.3
Summed Potential Emissions in tons/yr	14,288		
CO2e Total in tons/yr	**14,374.5**		

Methodology
The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310). updated 7/11

Appendix A: Emissions Calculations
Natural Gas Combustion Only - for Furnaces
MM BTU/HR <100

Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madision, Indiana 47250
Permit Number: 077-19827-00019
Permit Revision Number: 077-32177-00019
Reviewer: Jack Harmon
Date: 2012

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
33.38	1020	286.7

See Emission Units Summary on last page of these calculations

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.27	1.09	1.09	0.09	14.33	0.79	12.04

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation =

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Ga
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMI
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPs

	HAPs - Organics					Totals
	Benzene	Dichlorobenzen	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	3.010E-04	1.720E-04	1.075E-02	**2.580E-01**	4.873E-04	2.697E-01

	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	7.167E-05	1.577E-04	2.007E-04	5.447E-05	3.010E-04	7.855E-04
					Total HAPs	2.705E-01

Methodology is the same as page 1.

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

Greenhouse Gas Calculations updated 7/11

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	17,201	0.3	0.3
Summed Potential Emissions in tons/yr		17,201	
CO2e Total in tons/yr		**17,305.2**	

Methodology
The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

updated 7/11

Appendix A: Emission Calculations
Abrasive Blasting - Confined
Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madison, IN 47250
Permit Number: M 077-19827
Permit Revisions Number: 077-32177-00019
Reviewer: Jack Harmon
Application Date: 2012

See Emission Units Summary on last page of these calculations

Shotblast - Grit Media (B1)

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.010	
FR = Flow Rate (lb/hr) =	230	
w = fraction of time of wet blasting =	0	%
N = number of nozzles =	1	

Uncontrolled PM Emissions =	**2.30**	**lb/hr**
	10.07	**ton/yr**
Controlled PM Emissions =	**0.023**	**lb/hr**
	0.101	**ton/yr**
Uncontrolled PM10 Emissions =	**1.61**	**lb/hr**
	7.05	**ton/yr**
Controlled PM10 Emissions =	**0.016**	**lb/hr**
	0.071	**ton/yr**

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

Appendix A: Emission Calculations
Abrasive Blasting - Confined
Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madison, IN 47250
Permit Number: M 077-19827
Permit Revisions Number: 077-32177-00019
Reviewer: Jack Harmon
Application Date: 2012

See Emission Units Summary on last page of these calculations

Shotblast B7, B8

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.004
FR = Flow Rate (lb/hr) =	1780
w = fraction of time of wet blasting =	0 %
N = number of nozzles =	1

Uncontrolled PM Emissions =	**7.12**	**lb/hr**
	31.19	**ton/yr**
Controlled PM Emissions =	**0.071**	**lb/hr**
	0.312	**ton/yr**
Uncontrolled PM10 Emissions =	**6.12**	**lb/hr**
	26.82	**ton/yr**
Controlled PM10 Emissions =	**0.061**	**lb/hr**
	0.268	**ton/yr**

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

Appendix A: Emission Calculations
Abrasive Blasting - Confined
Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madison, IN 47250
Permit Number: M 077-19827
Permit Revisions Number: 077-32177-00019
Reviewer: Jack Harmon
Application Date: 2012

See Emission Units Summary on last page of these calculations

Shotblast Units B4, B6

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.010	
FR = Flow Rate (lb/hr) =	460	
w = fraction of time of wet blasting =	0	%
N = number of nozzles =	1	

Uncontrolled PM Emissions =	**4.60**	**lb/hr**
	20.15	**ton/yr**
Controlled PM Emissions =	**0.046**	**lb/hr**
	0.201	**ton/yr**
Uncontrolled PM10 Emissions =	**4.60**	**lb/hr**
	20.15	**ton/yr**
Controlled PM10 Emissions =	**0.046**	**lb/hr**
	0.201	**ton/yr**

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

Appendix A: Emission Calculations
Abrasive Blasting - Confined
Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madison, IN 47250
Permit Number: M 077-19827
Permit Revisions Number: 077-32177-00019
Reviewer: Jack Harmon
Application Date: 2012

See Emission Units Summary on last page of these calculations

Shotblast B9 Zinc Media

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.010	
FR = Flow Rate (lb/hr) =	440	
w = fraction of time of wet blasting =	0	%
N = number of nozzles =	1	

Uncontrolled PM Emissions =	**4.40**	**lb/hr**
	19.27	**ton/yr**
Controlled PM Emissions =	**0.044**	**lb/hr**
	0.193	**ton/yr**
Uncontrolled PM10 Emissions =	**4.40**	**lb/hr**
	19.27	**ton/yr**
Controlled PM10 Emissions =	**0.044**	**lb/hr**
	0.193	**ton/yr**

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

Appendix A: Emissions Calculations
Welding and Thermal Cutting

Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madison, IN 47250
Permit Number: M 077-19827
Permit Revision Number 077-32177-00019
Reviewer: Jack Harmon
Application Date: 2012

PROCESS	Number of Stations	Max. electrode onsumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
WELDING				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Submerged Arc	0	0		0.036	0.011			0.000	0.000	0.000	0	0.000
Metal Inert Gas (MIG)(carbon ste	0	0		0.0055	0.0005			0.000	0.000	0.000	0	0.000
Stick (E7018 electrode)	1	0.022		0.0211	0.0009			0.0005	0.000	0.000	0	0.000
Tungsten Inert Gas (TIG)(carbon	1	0.002		0.0055	0.0005			0.0000	0.000	0.000	0	0.000
Oxyacetylene(carbon steel)	0	0		0.0055	0.0005			0.000	0.000	0.000	0	0.000
	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
FLAME CUTTING				PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
Oxyacetylene	1	1	0.004	0.1622	0.0005	0.0001	0.0003	0.0000	0.000	0.000	0.000	0.000
Oxymethane	0	0	0	0.0815	0.0002		0.0002	0.0000	0.000	0.000	0.000	0.000
Plasma**	0	0	0	0.0039				0.0000	0.000	0.000	0.000	0.000
EMISSION TOTALS												
Potential Emissions lbs/hr								0.00	0.00	0.00	0.00	0.00
Potential Emissions lbs/day								0.01	0.00	0.00	0.00	0.00
Potential Emissions tons/year								0.002	0.00	0.00	0.00	0.00

METHODOLOGY

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick rather than 1 inch, and the maximum metal thickness is not used in calculting the emissions.

Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm tl

Plasma cutting emissions, lb/hr: (# of stations)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Cutting emissions, lb/hr: (# of stations)(max. metal thickness, in.)(max. cutting rate, in./min.)(60 min./hr.)(emission factor, lb. pollutant/1,000 i

Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)

Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day

Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 tor

Appendix A: Emissions Calculations
Emissions Units Listing

Company Name: Madison Precision Products, Inc.
Address City IN Zip: 94 East 400 North, Madision, Indiana 47250
Permit Number: 077-19827-00019
Permit Revision Number: 077-32177-00019
Reviewer: Jack Harmon
Date: 2012

Reverberatory Furnaces

ID Number	MMBtu/hr	Metal Throughput (lb/h)	Metal Throughput (tph)	Flux Type/%	Flux Throughput (lb/hr)	Flux Throughput (tph)	Total Process Weight (tph)
P-1	2.53	1500	0.75	6.65% , Cl 62.93	0.625	0.0003125	0.750
P-3	3.00	1500.00	0.75	Flourine 6.65%	0.237	0.0001185	0.750
P-5	0.8	450	0.225	Flourine 6.65%	0.06	0.00003	0.225
P-6	0.8	450	0.225	Flourine 6.65%	0.06	0.00003	0.225
P-7	2.8	1300	0.65	Flourine 6.65%	0.119	0.0000595	0.650
P-8	7.3	3300	1.65	Flourine 6.65%	0.74	0.00037	1.650
P-9							0.000
P-10	2.3	1500	0.75	Flourine 6.65%	0.32	0.00016	0.750
P-11	1.7	1200	0.6	Flourine 6.65%	0.38	0.00019	0.600
P-12	0.8	550	0.275	Flourine 6.65%	0.25	0.000125	0.275
P-13	0.8	550	0.275	Flourine 6.65%	0.25	0.000125	0.275
P-14	0.8	550	0.275	Flourine 6.65%	0.25	0.000125	0.275
P-15	1.707	700	0.35	Flourine 6.65%	0.60	0.0003	0.350
P-16	2.39	1500	0.75	Flourine 6.65%	0.60	0.0003	0.750
TOTALS	**27.727**	**15050**	**7.525**		**4.491**	**0.0022455**	**7.527**
				Total Flourine	4.491		
				Total Chlorine	0.625		

Shot Blast Units

ID Number	Media Throughput (lb/hr)	Media Throughput (t/hr)	Media Type	Total Process Weight Rate (tph)
B1	230	0.115	#50 Steel Grit	0.115
B4	140	0.07	#40 Zinc Cut Wire	0.07
B6	320	0.16	Carbon Steel Cut Wire	0.16
B7	405	0.2025	#50 Steel Shot	0.2025
B8	1375	0.6875	Carbon Steel Cut Wire	0.6875
B9	440	0.22	Zinc Shot	0.22
TOTALS	**2910**	**1.455**		**1.455**
Total Steel Shot	405			
Total Other Type	2505			

Welding Units

ID Number/Type	Rod Usage
Stick Welding	200 lb/yr
TIG	20 lb/yr
Oxyacetylene	36 in/wk

Other Natural Gas Units

ID Number	MMBtu/hr
H1-H33	33.38
TOTALS	**33.38**

Electric Holding Furnaces

F-1 to F-15

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: Louis Alexander
Madison Precision Products, Inc.
94 E 400 N
Madison, IN 47250

DATE: August 27, 2012

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

SUBJECT: Final Decision
Administrative Amendment
077-32177-00019

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:
Kevin Turner – General Manager
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.

Mail Code 61-53

IDEM Staff	GHOTOPP 8/27/2012 Madison Precision Products, Inc. 077-32177-00019 final		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	Type of Mail: **CERTIFICATE OF MAILING ONLY**

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		Louis Alexander Madison Precision Products, Inc. 94 E 400 N Madison IN 47250 (Source CAATS) via confirmed delivery									
2		Kevin Turner GM Madison Precision Products, Inc. 94 E 400 N Madison IN 47250 *(RO CAATS)*									
3		Jefferson County Health Department 715 Green Rd Madison IN 47250-2143 *(Health Department)*									
4		Madison City Council and Mayors Office 101 W. Main St. Madison IN 47250 *(Local Official)*									
5		Jefferson County Commissioners & Planning Board 300 E Main Street Madison IN 47250 *(Local Official)*									
6											
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14											
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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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