



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

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

TO: Interested Parties / Applicant  
DATE: September 7, 2007  
RE: Intrametco Processing Inc. / 163-18011-00071  
FROM: Nisha Sizemore  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER.dot 03/23/06



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100 North Senate Avenue  
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**NEW SOURCE REVIEW AND MINOR SOURCE  
OPERATING PERMIT  
OFFICE OF AIR QUALITY AND  
EVANSVILLE ENVIRONMENTAL  
PROTECTION AGENCY**

**Intrametco Processing Inc.  
1901 West Louisiana  
Evansville, Indiana 47710**

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

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

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

Operation Permit No.: MSOP 163-18011-00071	
Issued by:  Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date:  Expiration Date:

## TABLE OF CONTENTS

<b>SECTION A</b>	<b>SOURCE SUMMARY</b> .....	3
A.1	General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]	
A.2	Emission Units and Pollution Control Equipment Summary	
<b>SECTION B</b>	<b>GENERAL CONDITIONS</b> .....	6
B.1	Definitions [326 IAC 2-1.1-1]	
B.2	Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-8-6]	
B.5	Severability	
B.6	Property Rights or Exclusive Privilege	
B.7	Duty to Provide Information	
B.8	Certification	
B.9	Annual Notification [326 IAC 2-6.1-5(a)(5)]	
B.10	Preventive Maintenance Plan [326 IAC 1-6-3]	
B.11	Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.12	Termination of Right to Operate [326 IAC 2-6.1-7(a)]	
B.13	Permit Renewal [326 IAC 2-6.1-7]	
B.14	Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]	
B.15	Source Modification Requirement	
B.16	Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2] [IC 13-17-3-2][IC 13-30-3-1]	
B.17	Transfer of Ownership or Operation [326 IAC 2-6.1-6]	
B.18	Annual Fee Payment [326 IAC 2-1.1-7]	
B.19	Credible Evidence [326 IAC 1-1-6]	
<b>SECTION C</b>	<b>SOURCE OPERATION CONDITIONS</b> .....	12
	<b>Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]</b>	
C.1	Particulate Emission Limitation For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2]	
C.2	Permit Revocation [326 IAC 2-1.1-9]	
C.3	Opacity [326 IAC 5-1]	
C.4	Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.5	Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.6	Fugitive Dust Emissions [326 IAC 6-4]	
C.7	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
	<b>Testing Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
C.8	Performance Testing [326 IAC 3-6]	
	<b>Compliance Requirements [326 IAC 2-1.1-11]</b>	
C.9	Compliance Requirements [326 IAC 2-1.1-11]	
	<b>Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
C.10	Compliance Monitoring [326 IAC 2-1.1-11]	
C.11	Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]	
C.12	Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]	
C.13	Response to Excursions or Exceedances [326 IAC 2-8-4][326 IAC 2-8-5]	
C.14	Actions Related to Noncompliance Demonstrated by a Stack Test	
	<b>Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]</b>	
C.15	Malfunctions Report [326 IAC 1-6-2]	
C.16	General Record Keeping Requirements [326 IAC 2-6.1-5]	
C.17	General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]	

**TABLE OF CONTENTS (Continued)**

**SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS ..... 18**

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

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

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

**Compliance Determination Requirements**

D.1.3 Particulate Control

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

D.1.4 Parametric Monitoring

D.1.5 Broken or Failed Bag Detection

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

D.1.6 General Record Keeping Requirements

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-6.1-5(a)(1)]**

D.1.7 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR Part 63, Subpart A]

D.1.8 NESHAP for Secondary Aluminum Production: Requirements [40 CFR Part 63, Subpart RRR]

**SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS ..... 39**

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

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

Annual Report ..... 40

Malfunction Report ..... 41

Certification ..... 43

## SECTION A SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary secondary aluminum processing plant.

Source Address:	1901 West Louisiana, Evansville, Indiana 47710
Mailing Address:	P.O. Box 364, Evansville, Indiana 47703
General Source Phone:	(812) 423-5914
SIC Code:	3341
County Location:	Vanderburgh
Source Location Status:	Nonattainment for PM2.5 Attainment for all other criteria pollutants
Source Status:	Minor Source, under PSD and Nonattainment NSR Rules Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

### A.2 Emissions Units and Pollution Control Equipment Summary

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

- (a) One (1) electric induction furnace (identified as EU01), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 20 pounds of flux per 16,500 pounds of product, controlled by a baghouse (identified as South baghouse 2) and exhausting at South stack 1. This unit was constructed in 1981.
- (b) One (1) electric induction furnace (identified as EU02), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 25 pounds of flux per 16,500 pounds of product, controlled by a baghouse (identified as North baghouse 1) and exhausting at North stack 2. This unit was constructed in 1989.
- (c) One (1) primary scrap shredder (identified as EU04), with a maximum capacity of 3.50 tons of aluminum scrap per hour, exhausting at North stack 2. This unit was constructed in 1981.
- (d) One (1) auxiliary scrap shredder (identified as EU05), with a maximum capacity of 1.75 tons of aluminum scrap per hour. This unit was installed in 1997.
- (e) Aluminum sow mold casting operation (identified as EU06), consisting of a casting operation, pouring/cooling, and a manual knockout process for furnace #1, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1981.
- (f) Aluminum sow mold casting operation (identified as EU07), consisting of a casting operation, pouring/cooling, and a manual knockout process for furnace #2, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1989.
- (g) One (1) hot dross cooling process for furnace #1 (identified as EU08), with a maximum throughput rate of 105 pounds of dross per hour.
- (h) One (1) hot dross cooling process for furnace #2 (identified as EU09), with a maximum

throughput rate of 105 pounds of dross per hour.

## **SECTION B GENERAL CONDITIONS**

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

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

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

### **B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5] [IC13-15-3-6(a)]**

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- (a) This permit, M163-18011-00071, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ and EEPA, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

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

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

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

### **B.4 Enforceability**

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

### **B.5 Severability**

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

### **B.6 Property Rights or Exclusive Privilege**

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

### **B.7 Duty to Provide Information**

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- (a) The Permittee shall furnish to IDEM, OAQ, and EEPA within a reasonable time, any information that IDEM, OAQ, and EEPA 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. Upon request, the Permittee shall also furnish to IDEM, OAQ, and EEPA copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of

confidentiality in accordance with 40 CFR 2, Subpart B.

#### B.8 Certification

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

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

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

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

- (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, and EEPA on or before the date it is due.

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

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

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

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, and EEPA upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and EEPA. IDEM, OAQ, and EEPA may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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- (a) All terms and conditions of permits established prior to M163-18011-00071 and issued pursuant to permitting programs approved into the state implementation plan have been either
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted
- (b) All previous registrations and permits are superseded by this permit.

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

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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 nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

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

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

Request for renewal shall be submitted to:

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

- (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, and EEPA 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, and EEPA, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, and EEPA, any additional information identified as being needed to process the application.

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

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- and
- Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145
- Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.15 Source Modification Requirement**

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

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

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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, EEPa, 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 this title or the conditions of this permit or any operating permit revisions;
- (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 processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.17 Transfer of Ownership or Operation [326 IAC 2-6.1-6]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6-1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

The application which shall be submitted by the Permittee does require the certification by the "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 immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

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

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- (a) The Permittee shall pay annual fees to EEPA at the address listed below by the date indicated on the invoice.

Evansville Environmental Protection Agency (EEPA)  
100 East Walnut Street, Suite 100  
Evansville, Indiana 47713

- (b) The Permittee may call the EEPA at the following telephone number: (812) 435-6145 to determine the appropriate permit fee and due date.

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

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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 and EEPA, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of thirty percent (30%) 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 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

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

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

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

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

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR Part 61, Subpart M]

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

All required notifications shall be submitted to:

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control

The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

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

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

#### C.8 Performance Testing [326 IAC 3-6]

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- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

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 EEPA not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ and EEPA, 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.9 Compliance Requirements [326 IAC 2-1.1-11]

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The commissioner may require stack testing, monitoring, or reporting at any time to assure

compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

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

#### **C.10 Compliance Monitoring [326 IAC 2-1.1-11]**

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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.11 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]**

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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.12 Instrument Specifications [326 IAC 2-1.1-11]**

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- (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 shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ and EEPA approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

#### **C.13 Response to Excursions or Exceedances**

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

- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

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

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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), Evansville Environmental Protection Agency (EEPA) 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, and EEPA, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

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

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

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

- (a) Reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
and  
  
Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145
- (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, and Evansville Environmental Protection Agency on or before the date it is due.
- (c) Unless otherwise specified in this permit, any reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.
- (e) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and EEPA. The general public may request this information from the IDEM, OAQ and EEPA under 326 IAC 17.1.

## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-6.1-5(a)(1)]:

- (a) One (1) electric induction furnace (identified as EU01), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 20 pounds of flux per 16,500 pounds of product, controlled by a baghouse (identified as South baghouse 2) and exhausting at South stack 1. This unit was constructed in 1981.
- (b) One (1) electric induction furnace (identified as EU02), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 25 pounds of flux per 16,500 pounds of product, controlled by a baghouse (identified as North baghouse 1) and exhausting at North stack 2. This unit was constructed in 1989.

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the two (2) electric induction furnaces shall each not exceed 5.97 pounds per hour when operating at a process weight rate of 3,500 pounds 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:

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

#### D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their baghouses. If the OMM plan required by 40 CFR 63.1510(b) is developed in accordance with Section B - Preventive Maintenance Plans, then it shall satisfy the requirements of this condition.

### Compliance Determination Requirements

#### D.1.3 Particulate Control

- (a) In order to comply with Condition D.1.1, South baghouse 2 and North baghouse 1 for particulate control shall be in operation and control emissions at all times that EU-01 and EU-02 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 2-6.1-5(a)(2)]

#### D.1.4 Parametric Monitoring

The Permittee shall record the pressure drop across the two (2) baghouse stack exhausts at least once per day when the furnaces are in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 7.0 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.

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 EEPa, and shall be calibrated at least once every six (6) months.

#### D.1.5 Broken or Failed Bag Detection

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

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 2-6.1-5(a)(2)]**

#### D.1.6 General Record Keeping Requirements

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- (a) To document compliance with Condition D.1.4, the Permittee shall maintain once per day records of the pressure drop during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (i.e. 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.

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-6.1-5(a)(1)]**

#### D.1.7 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR Part 63, Subpart A]

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Pursuant to 40 CFR 63.1518, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the two (2) electric induction furnaces (identified as EU1 and EU2) as specified in Appendix A of 40 CFR Part 63, Subpart RRR in accordance with schedule in 40 CFR 63 Subpart RRR.

#### D.1.8 NESHAP for Secondary Aluminum Production: Requirements [40 CFR Part 63, Subpart RRR]

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Pursuant to CFR Part 63, Subpart RRR, the Permittee shall comply with the provisions of 40 CFR Part 63.1505(i) and 40 CFR 63.1505(k) for the two (2) electric induction furnaces (identified as EU1 and EU2) as specified in the following paragraphs.

### **Subpart RRR—National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production**

**Source:** 65 FR 15710, Mar. 23, 2000, unless otherwise noted.

#### **General**

#### **§ 63.1500 Applicability.**

- (a) The requirements of this subpart apply to the owner or operator of each secondary aluminum production facility as defined in §63.1503.

(c) The requirements of this subpart pertaining to dioxin and furan (D/F) emissions and associated operating, monitoring, reporting and recordkeeping requirements apply to the following affected sources, located at a secondary aluminum production facility that is an area source of HAPs as defined in §63.2:

(4) Each new and existing secondary aluminum processing unit, containing one or more group 1 furnace emission units processing other than clean charge.

(e) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79814, Dec. 30, 2002; 70 FR 75346, Dec. 19, 2005]

#### **§ 63.1501 Dates.**

(a) The owner or operator of an existing affected source must comply with the requirements of this subpart by March 24, 2003.

#### **§ 63.1502 Incorporation by reference.**

(a) The following material is incorporated by reference in the corresponding sections noted. The incorporation by reference (IBR) of certain publications listed in the rule will be approved by the Director of the Office of the Federal Register as of the date of publication of the final rule in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. This material is incorporated as it exists on the date of approval:

(1) Chapters 3 and 5 of "Industrial Ventilation: A Manual of Recommended Practice," American Conference of Governmental Industrial Hygienists, (23rd edition, 1998), IBR approved for §63.1506(c), and

(2) "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update" (EPA/625/3-89/016).

(b) The material incorporated by reference is available for inspection at the National Archives and Records Administration (NARA); and at the Air and Radiation Docket and Information Center, U.S. EPA, 1200 Pennsylvania Ave., NW., Washington, DC. For information on the availability of this material at NARA, call 202-741-6030, or go to:

[http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html). The material is also available for purchase from the following addresses:

(1) Customer Service Department, American Conference of Governmental Industrial Hygienists (ACGIH), 1330 Kemper Meadow Drive, Cincinnati, OH 45240-1634, telephone number (513) 742-2020; and

(2) The National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA, NTIS no. PB 90-145756.

#### **§ 63.1503 Definitions.**

Terms used in this subpart are defined in the Clean Air Act as amended (CAA), in §63.2, or in this section as follows:

*Add-on air pollution control device* means equipment installed on a process vent that reduces the quantity of a pollutant that is emitted to the air.

*Afterburner* means an air pollution control device that uses controlled flame combustion to convert combustible materials to noncombustible gases; also known as an incinerator or a thermal oxidizer.

*Aluminum scrap* means fragments of aluminum stock removed during manufacturing ( *i.e.*, machining), manufactured aluminum articles or parts rejected or discarded and useful only as material for reprocessing, and waste and discarded material made of aluminum.

*Aluminum scrap shredder* means a unit that crushes, grinds, or breaks aluminum scrap into a more uniform size prior to processing or charging to a *scrap dryer/delacquering kiln/decoating kiln*, or furnace. A bale breaker is not an *aluminum scrap shredder*.

*Bag leak detection system* means an instrument that is capable of monitoring particulate matter loadings in the exhaust of a fabric filter ( *i.e.*, baghouse) in order to detect bag failures. A *bag leak detection system* includes, but is not limited to, an instrument that operates on triboelectric, light scattering, light transmittance, or other effect to monitor relative particulate matter loadings.

*Chips* means small, uniformly-sized, unpainted pieces of aluminum scrap, typically below 11/4inches in any dimension, primarily generated by turning, milling, boring, and machining of aluminum parts.

*Clean charge* means furnace charge materials, including molten aluminum; T-bar; sow; ingot; billet; pig; alloying elements; aluminum scrap known by the owner or operator 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 343 °C (650 °F) or higher; aluminum scrap delacquered/decoated at 482 °C (900 °F) or higher, and runaround scrap.

*Cover flux* means salt added to the surface of molten aluminum in a *group 1* or *group 2 furnace*, without agitation of the molten aluminum, for the purpose of preventing oxidation.

*Customer returns* means any aluminum product which is returned by a customer to the aluminum company that originally manufactured the product prior to resale of the product or further distribution in commerce, and which contains no paint or other solid coatings ( *i.e.*, lacquers).

*D/F* means dioxins and furans.

*Dioxins and furans* means tetra-, penta-, hexa-, and octachlorinated dibenzo dioxins and furans.

*Dross* means the slags and skimmings from aluminum melting and refining operations consisting of fluxing agent(s), impurities, and/or oxidized and non-oxidized aluminum, from scrap aluminum charged into the furnace.

*Dross-only furnace* means a furnace, typically of rotary barrel design, dedicated to the reclamation of aluminum from dross formed during melting, holding, fluxing, or alloying operations carried out in other process units. Dross and salt flux are the sole feedstocks to this type of furnace.

*Emission unit* means a *group 1 furnace* or *in-line fluxer* at a *secondary aluminum production facility*.

*Fabric filter* means an add-on air pollution control device used to capture particulate matter by filtering gas streams through filter media; also known as a baghouse.

*Feed/charge* means, for a furnace or other process unit that operates in batch mode, the total weight of material (including molten aluminum, T-bar, sow, ingot, etc.) and alloying agents that enter the furnace during an operating cycle. For a furnace or other process unit that operates continuously, *feed/charge* means the weight of material (including molten aluminum, T-bar, sow, ingot, etc.) and alloying agents that enter the process unit within a specified time period ( *e.g.*, a time period equal to the performance test period). The *feed/charge* for a dross only furnace includes the total weight of dross and solid flux.

*Fluxing* means refining of molten aluminum to improve product quality, achieve product specifications, or reduce material loss, including the addition of solvents to remove impurities (solvent flux); and the injection of gases such as chlorine, or chlorine mixtures, to remove magnesium (demagging) or hydrogen bubbles (degassing). *Fluxing* may be performed in the furnace or outside the furnace by an *in-line fluxer*.

*Furnace hearth* means the combustion zone of a furnace in which the molten metal is contained.

*Group 1 furnace* means a furnace of any design that melts, holds, or processes aluminum that contains paint, lubricants, coatings, or other foreign materials with or without *reactive fluxing*, or processes *clean charge* with *reactive fluxing*.

*Group 2 furnace* means a furnace of any design that melts, holds, or processes only *clean charge* and that performs no *fluxing* or performs *fluxing* using only nonreactive, non-HAP-containing/non-HAP-generating gases or agents.

*HCl* means, for the purposes of this subpart, emissions of hydrogen chloride that serve as a surrogate measure of the total emissions of the HAPs hydrogen chloride, hydrogen fluoride and chlorine.

*In-line fluxer* means a device exterior to a furnace, located in a transfer line from a furnace, used to refine (flux) molten aluminum; also known as a flux box, degassing box, or demagging box.

*Internal scrap* means all aluminum scrap regardless of the level of contamination which originates from castings or extrusions produced by an aluminum die casting facility, aluminum foundry, or aluminum extrusion facility, and which remains at all times within the control of the company that produced the castings or extrusions.

*Lime* means calcium oxide or other alkaline reagent.

*Lime-injection* means the continuous addition of lime upstream of a *fabric filter*.

*Melting/holding furnace* means a *group 1 furnace* that processes only *clean charge*, performs melting, holding, and fluxing functions, and does not transfer molten aluminum to or from another furnace except for purposes of alloy changes, off-specification product drains, or maintenance activities.

*Operating cycle* means for a batch process, the period beginning when the feed material is first charged to the operation and ending when all feed material charged to the operation has been processed. For a batch melting or holding furnace process, *operating cycle* means the period including the charging and melting of scrap aluminum and the fluxing, refining, alloying, and tapping of molten aluminum (the period from tap-to-tap).

*PM* means, for the purposes of this subpart, emissions of particulate matter that serve as a measure of total particulate emissions and as a surrogate for metal HAPs contained in the particulates, including but not limited to, antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, mercury, nickel, and selenium.

*Pollution prevention* means source reduction as defined under the Pollution Prevention Act of 1990 ( e.g., equipment or technology modifications, process or procedure modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control), and other practices that reduce or eliminate the creation of pollutants through increased efficiency in the use of raw materials, energy, water, or other resources, or protection of natural resources by conservation.

*Reactive fluxing* means the use of any gas, liquid, or solid flux (other than cover flux) that results in a HAP emission. Argon and nitrogen are not reactive and do not produce HAP.

*Reconstruction* means the replacement of components of an affected source or *emission unit* such that the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable new affected source, and it is technologically and economically feasible for the reconstructed source to meet relevant standard(s) established in this subpart. Replacement of the refractory in a furnace is routine maintenance and is not a *reconstruction*. The repair and replacement of *in-line fluxer* components ( e.g., rotors/shafts, burner tubes, refractory, warped steel) is considered to be routine maintenance and is not considered a *reconstruction*. *In-line fluxers* are typically removed to a maintenance/repair area and are replaced with repaired units. The replacement of an existing *in-line fluxer* with a repaired unit is not considered a *reconstruction*.

*Residence time* means, for an *afterburner*, the duration of time required for gases to pass through the *afterburner* combustion zone. *Residence time* is calculated by dividing the *afterburner* combustion zone volume in cubic feet by the volumetric flow rate of the gas stream in actual cubic feet per second.

*Rotary dross cooler* means a water-cooled rotary barrel device that accelerates cooling of dross.

*Runaround scrap* means scrap materials generated on-site by aluminum casting, extruding, rolling, scalping, forging, forming/stamping, cutting, and trimming operations and that do not contain paint or solid coatings. Uncoated/unpainted aluminum chips generated by turning, boring, milling, and similar machining operations may be clean charge if they have been thermally dried or treated by a centrifugal cleaner, but are not considered to be *runaround scrap*.

*Scrap dryer/delacquering kiln/decoating kiln* means a unit used primarily to remove various organic contaminants such as oil, paint, lacquer, ink, plastic, and/or rubber from *aluminum scrap* (including used beverage containers) prior to melting.

*Secondary aluminum processing unit (SAPU)*. An existing SAPU means all existing *group 1 furnaces* and all existing *in-line fluxers* within a *secondary aluminum production facility*. Each existing *group 1 furnace* or existing *in-line fluxer* is considered an *emission unit* within a *secondary aluminum processing unit*. A

new *SAPU* means any combination of individual *group 1 furnaces* and *in-line fluxers* within a *secondary aluminum processing facility* which either were constructed or reconstructed after February 11, 1999, or have been permanently redesignated as new emission units pursuant to §63.1505(k)(6). Each of the *group 1 furnaces* or *in-line fluxers* within a new *SAPU* is considered an *emission unit* within that *secondary aluminum processing unit*.

*Secondary aluminum production facility* means any establishment using *clean charge*, *aluminum scrap*, or dross from aluminum production, as the raw material and performing one or more of the following processes: scrap shredding, scrap drying/delacquering/decoating, thermal chip drying, furnace operations ( *i.e.*, melting, holding, sweating, refining, fluxing, or alloying), recovery of aluminum from dross, in-line fluxing, or dross cooling. A *secondary aluminum production facility* may be independent or part of a primary aluminum production facility. For purposes of this subpart, aluminum die casting facilities, aluminum foundries, and aluminum extrusion facilities are not considered to be secondary aluminum production facilities if the only materials they melt are *clean charge*, customer returns, or internal scrap, and if they do not operate sweat furnaces, thermal chip dryers, or scrap dryers/delacquering kilns/decoating kilns. The determination of whether a facility is a *secondary aluminum production facility* is only for purposes of this subpart and any regulatory requirements which are derived from the applicability of this subpart, and is separate from any determination which may be made under other environmental laws and regulations, including whether the same facility is a "secondary metal production facility" as that term is used in 42 U.S.C. §7479(1) and 40 CFR 52.21(b)(1)(i)(A) ("prevention of significant deterioration of air quality").

*Sidewell* means an open well adjacent to the hearth of a furnace with connecting arches between the hearth and the open well through which molten aluminum is circulated between the hearth, where heat is applied by burners, and the open well, which is used for charging scrap and solid flux or salt to the furnace, injecting fluxing agents, and skimming dross.

*Sweat furnace* means a furnace used exclusively to reclaim aluminum from scrap that contains substantial quantities of iron by using heat to separate the low-melting point aluminum from the scrap while the higher melting-point iron remains in solid form.

*TEQ* means the international method of expressing toxicity equivalents for dioxins and furans as defined in "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzop-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update" (EPA-625/3-89-016), available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161, NTIS no. PB 90-145756.

*THC* means, for the purposes of this subpart, total hydrocarbon emissions that also serve as a surrogate for the emissions of organic HAP compounds.

*Thermal chip dryer* means a device that uses heat to evaporate oil or oil/water mixtures from unpainted/uncoated aluminum chips. Pre-heating boxes or other dryers which are used solely to remove water from aluminum scrap are not considered to be thermal chip dryers for purposes of this subpart.

*Three-day, 24-hour rolling average* means daily calculations of the average 24-hour emission rate (lbs/ton of feed/charge), over the 3 most recent consecutive 24-hour periods, for a *secondary aluminum processing unit*.

*Total reactive chlorine flux injection rate* means the sum of the total weight of chlorine in the gaseous or liquid reactive flux and the total weight of chlorine in the solid reactive chloride flux, divided by the total weight of feed/charge, as determined by the procedure in §63.1512(o).

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79814, Dec. 30, 2002; 69 FR 18803, Apr. 9, 2004; 69 FR 53984, Sept. 3, 2004; 70 FR 57517, Oct. 3, 2005]

## **Emission Standards and Operating Requirements**

### **§ 63.1505 Emission standards for affected sources and emission units.**

(a) *Summary*. The owner or operator of a new or existing affected source must comply with each applicable limit in this section. Table 1 to this subpart summarizes the emission standards for each type of source.

(i) *Group 1 furnace.* The owner or operator of a group 1 furnace must use the limits in this paragraph to determine the emission standards for a SAPU.

(3) 15 µg of D/F TEQ per Mg ( $2.1 \times 10^{-4}$ gr of D/F TEQ per ton) of feed/charge from a group 1 furnace at a secondary aluminum production facility that is a major or area source. This limit does not apply if the furnace processes only clean charge; and

(6) The owner or operator may determine the emission standards for a SAPU by applying the group 1 furnace limits on the basis of the aluminum production weight in each group 1 furnace, rather than on the basis of feed/charge.

(k) *Secondary aluminum processing unit.* On and after the compliance date established by §63.1501, the owner or operator must comply with the emission limits calculated using the equations for PM and HCl in paragraphs (k)(1) and (2) of this section for each secondary aluminum processing unit at a secondary aluminum production facility that is a major source. The owner or operator must comply with the emission limit calculated using the equation for D/F in paragraph (k)(3) of this section for each secondary aluminum processing unit at a secondary aluminum production facility that is a major or area source.

(3) The owner or operator must not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of D/F in excess of:

$$L_{cD/F} = \frac{\sum_{i=1}^n (L_{iD/F} \times T_{ii})}{\sum_{i=1}^n (T_{ii})} \quad (\text{Eq. 3})$$

Where,

$L_{iD/F}$  = The D/F emission limit for individual emission unit i in paragraph (i)(3) of this section for a group 1 furnace; and

$L_{cD/F}$  = The D/F emission limit for the secondary aluminum processing unit.

Note: Clean charge furnaces cannot be included in this calculation since they are not subject to the D/F limit.

(5) The owner or operator of a SAPU at a secondary aluminum production facility that is an area source may demonstrate compliance with the emission limits of paragraph (k)(3) of this section by demonstrating that each emission unit within the SAPU is in compliance with the emission limit of paragraph (i)(3) of this section.

(6) With the prior approval of the responsible permitting authority, an owner or operator may redesignate any existing group 1 furnace or in-line fluxer at a secondary aluminum production facility as a new emission unit. Any emission unit so redesignated may thereafter be included in a new SAPU at that facility. Any such redesignation will be solely for the purpose of this MACT standard and will be irreversible.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 59792, Sept. 24, 2002; 67 FR 79816, Dec. 30, 2002; 70 FR 57517, Oct. 3, 2005]

### § 63.1506 Operating requirements.

(a) *Summary.* (1) On and after the compliance date established by §63.1501, the owner or operator must operate all new and existing affected sources and control equipment according to the requirements in this section.

(4) Operating requirements are summarized in Table 2 to this subpart.

(b) *Labeling.* The owner or operator must provide and maintain easily visible labels posted at each group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln/decoating kiln that identifies the applicable emission limits and means of compliance, including:

(1) The type of affected source or emission unit ( e.g., scrap dryer/delacquering kiln/decoating kiln, group

1 furnace, group 2 furnace, in-line fluxer).

(2) The applicable operational standard(s) and control method(s) (work practice or control device). This includes, but is not limited to, the type of charge to be used for a furnace ( e.g ., clean scrap only, all scrap, etc.), flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in the OM&M plan.

(d) *Feed/charge weight.* The owner or operator of each affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) or µg/Mg (gr/ton) of feed/charge must:

(1) Except as provided in paragraph (d)(3) of this section, install and operate a device that measures and records or otherwise determine the weight of feed/charge (or throughput) for each operating cycle or time period used in the performance test; and

(2) Operate each weight measurement system or other weight determination procedure in accordance with the OM&M plan.

(3) The owner or operator may chose to measure and record aluminum production weight from an affected source or emission unit rather than feed/charge weight to an affected source or emission unit, provided that:

(i) The aluminum production weight, rather than feed/charge weight is measured and recorded for all emission units within a SAPU; and

(ii) All calculations to demonstrate compliance with the emission limits for SAPUs are based on aluminum production weight rather than feed/charge weight.

(p) *Corrective action.* When a process parameter or add-on air pollution control device operating parameter deviates from the value or range established during the performance test and incorporated in the OM&M plan, the owner or operator must initiate corrective action. Corrective action must restore operation of the affected source or emission unit (including the process or control device) to its normal or usual mode of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. Corrective actions taken must include follow-up actions necessary to return the process or control device parameter level(s) to the value or range of values established during the performance test and steps to prevent the likely recurrence of the cause of a deviation.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 59792, Sept. 24, 2002; 67 FR 79816, Dec. 30, 2002; 69 FR 53984, Sept. 3, 2004]

## **Monitoring and Compliance Requirements**

### **§ 63.1510 Monitoring requirements.**

(a) *Summary.* On and after the compliance date established by §63.1501, the owner or operator of a new or existing affected source or emission unit must monitor all control equipment and processes according to the requirements in this section. Monitoring requirements for each type of affected source and emission unit are summarized in Table 3 to this subpart.

(b) *Operation, maintenance, and monitoring (OM&M) plan.* The owner or operator must prepare and implement for each new or existing affected source and emission unit, a written operation, maintenance, and monitoring (OM&M) plan. The owner or operator of an existing affected source must submit the OM&M plan to the responsible permitting authority no later than the compliance date established by §63.1501(a). The owner or operator of any new affected source must submit the OM&M plan to the responsible permitting authority within 90 days after a successful initial performance test under §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The plan must be accompanied by a written certification by the owner or operator that the OM&M plan satisfies all requirements of this section and is otherwise consistent with the requirements of this subpart. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority, unless and until the plan is revised in accordance with the following procedures. If the permitting authority determines at any time after receipt of the OM&M plan that any revisions of the plan are necessary to satisfy the requirements of this section or this subpart, the owner or operator must promptly make all necessary revisions and resubmit the revised plan. If the owner or operator determines that any other revisions of the OM&M plan are necessary, such revisions will not

become effective until the owner or operator submits a description of the changes and a revised plan incorporating them to the permitting authority. Each plan must contain the following information:

- (1) Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device.
  - (2) A monitoring schedule for each affected source and emission unit.
  - (3) Procedures for the proper operation and maintenance of each process unit and add-on control device used to meet the applicable emission limits or standards in §63.1505.
  - (4) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:
    - (i) Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and
    - (ii) Procedures for the quality control and quality assurance of continuous emission or opacity monitoring systems as required by the general provisions in subpart A of this part.
  - (5) Procedures for monitoring process and control device parameters, including procedures for annual inspections of afterburners, and if applicable, the procedure to be used for determining charge/feed (or throughput) weight if a measurement device is not used.
  - (6) Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in paragraph (b)(1) of this section, including:
    - (i) Procedures to determine and record the cause of any deviation or excursion, and the time the deviation or excursion began and ended; and
    - (ii) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.
  - (7) A maintenance schedule for each process and control device that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.
- (c) *Labeling.* The owner or operator must inspect the labels for each group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln/decoating kiln at least once per calendar month to confirm that posted labels as required by the operational standard in §63.1506(b) are intact and legible.
- (e) *Feed/charge weight.* The owner or operator of an affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) or µg/Mg (gr/ton) of feed/charge must install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, the affected source or emission unit over the same operating cycle or time period used in the performance test. Feed/charge or aluminum production within SAPUs must be measured and recorded on an emission unit-by-emission unit basis. As an alternative to a measurement device, the owner or operator may use a procedure acceptable to the applicable permitting authority to determine the total weight of feed/charge or aluminum production to the affected source or emission unit.
- (1) The accuracy of the weight measurement device or procedure must be ±1 percent of the weight being measured. The owner or operator may apply to the permitting agency for approval to use a device of alternative accuracy if the required accuracy cannot be achieved as a result of equipment layout or charging practices. A device of alternative accuracy will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standard.
  - (2) The owner or operator must verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.
- (s) *Site-specific requirements for secondary aluminum processing units.* (1) An owner or operator of a secondary aluminum processing unit at a facility must include, within the OM&M plan prepared in accordance with §63.1510(b), the following information:
- (i) The identification of each emission unit in the secondary aluminum processing unit;

(ii) The specific control technology or pollution prevention measure to be used for each emission unit in the secondary aluminum processing unit and the date of its installation or application;

(iii) The emission limit calculated for each secondary aluminum processing unit and performance test results with supporting calculations demonstrating initial compliance with each applicable emission limit;

(iv) Information and data demonstrating compliance for each emission unit with all applicable design, equipment, work practice or operational standards of this subpart; and

(v) The monitoring requirements applicable to each emission unit in a secondary aluminum processing unit and the monitoring procedures for daily calculation of the 3-day, 24-hour rolling average using the procedure in §63.1510(t).

(2) The SAPU compliance procedures within the OM&M plan may not contain any of the following provisions:

(i) Any averaging among emissions of differing pollutants;

(ii) The inclusion of any affected sources other than emission units in a secondary aluminum processing unit;

(iii) The inclusion of any emission unit while it is shutdown; or

(iv) The inclusion of any periods of startup, shutdown, or malfunction in emission calculations.

(3) To revise the SAPU compliance provisions within the OM&M plan prior to the end of the permit term, the owner or operator must submit a request to the applicable permitting authority containing the information required by paragraph (s)(1) of this section and obtain approval of the applicable permitting authority prior to implementing any revisions.

(t) *Secondary aluminum processing unit.* Except as provided in paragraph (u) of this section, the owner or operator must calculate and record the 3-day, 24-hour rolling average emissions of PM, HCl, and D/F for each secondary aluminum processing unit on a daily basis. To calculate the 3-day, 24-hour rolling average, the owner or operator must:

(1) Calculate and record the total weight of material charged to each emission unit in the secondary aluminum processing unit for each 24-hour day of operation using the feed/charge weight information required in paragraph (e) of this section. If the owner or operator chooses to comply on the basis of weight of aluminum produced by the emission unit, rather than weight of material charged to the emission unit, all performance test emissions results and all calculations must be conducted on the aluminum production weight basis.

(2) Multiply the total feed/charge weight to the emission unit, or the weight of aluminum produced by the emission unit, for each emission unit for the 24-hour period by the emission rate (in lb/ton of feed/charge) for that emission unit (as determined during the performance test) to provide emissions for each emission unit for the 24-hour period, in pounds.

(3) Divide the total emissions for each SAPU for the 24-hour period by the total material charged to the SAPU, or the weight of aluminum produced by the SAPU over the 24-hour period to provide the daily emission rate for the SAPU.

(4) Compute the 24-hour daily emission rate using Equation 4:

$$E_{\text{day}} = \frac{\sum_{i=1}^n (T_i \times ER_i)}{\sum_{i=1}^n T_i} \quad (\text{Eq. 4})$$

Where,

$E_{\text{day}}$  = The daily PM, HCl, or D/F emission rate for the secondary aluminum processing unit for the 24-hour period;

$T_i$  = The total amount of feed, or aluminum produced, for emission unit  $i$  for the 24-hour period (tons or Mg);

$ER_i$  = The measured emission rate for emission unit  $i$  as determined in the performance test (lb/ton or  $\mu\text{g}/\text{Mg}$  of feed/charge); and

$n$  = The number of emission units in the secondary aluminum processing unit.

(5) Calculate and record the 3-day, 24-hour rolling average for each pollutant each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3.

(u) *Secondary aluminum processing unit compliance by individual emission unit demonstration.* As an alternative to the procedures of paragraph (t) of this section, an owner or operator may demonstrate, through performance tests, that each individual emission unit within the secondary aluminum production unit is in compliance with the applicable emission limits for the emission unit.

### **§ 63.1511 Performance test/compliance demonstration general requirements.**

(a) *Site-specific test plan.* Prior to conducting any performance test required by this subpart, the owner or operator must prepare a site-specific test plan which satisfies all of the requirements, and must obtain approval of the plan pursuant to the procedures, set forth in §63.7(c).

(b) *Initial performance test.* Following approval of the site-specific test plan, the owner or operator must demonstrate initial compliance with each applicable emission, equipment, work practice, or operational standard for each affected source and emission unit, and report the results in the notification of compliance status report as described in §63.1515(b). The owner or operator of any existing affected source for which an initial performance test is required to demonstrate compliance must conduct this initial performance test no later than the date for compliance established by §63.1501(a). The owner or operator of any new affected source for which an initial performance test is required must conduct this initial performance test within 90 days after the date for compliance established by §63.1501(b). Except for the date by which the performance test must be conducted, the owner or operator must conduct each performance test in accordance with the requirements and procedures set forth in §63.7(c). Owners or operators of affected sources located at facilities which are area sources are subject only to those performance testing requirements pertaining to D/F. Owners or operators of sweat furnaces meeting the specifications of §63.1505(f)(1) are not required to conduct a performance test.

(1) The owner or operator must conduct each test while the affected source or emission unit is operating at the highest production level with charge materials representative of the range of materials processed by the unit and, if applicable, at the highest reactive fluxing rate.

(2) Each performance test for a continuous process must consist of 3 separate runs; pollutant sampling for each run must be conducted for the time period specified in the applicable method or, in the absence of a specific time period in the test method, for a minimum of 3 hours.

(3) Each performance test for a batch process must consist of three separate runs; pollutant sampling for each run must be conducted over the entire process operating cycle.

(5) Initial compliance with an applicable emission limit or standard is demonstrated if the average of three runs conducted during the performance test is less than or equal to the applicable emission limit or standard.

(c) *Test methods.* The owner or operator must use the following methods in appendix A to 40 CFR part 60 to determine compliance with the applicable emission limits or standards:

(7) Method 23 for the concentration of D/F.

(g) *Establishment of monitoring and operating parameter values.* The owner or operator of new or existing affected sources and emission units must establish a minimum or maximum operating parameter value, or an operating parameter range for each parameter to be monitored as required by §63.1510 that ensures compliance with the applicable emission limit or standard. To establish the minimum or maximum value or range, the owner or operator must use the appropriate procedures in this section and submit the information required by §63.1515(b)(4) in the notification of compliance status report. The owner or operator may use existing data in addition to the results of performance tests to establish operating parameter values for compliance monitoring provided each of the following conditions are met to the

satisfaction of the applicable permitting authority:

- (1) The complete emission test report(s) used as the basis of the parameter(s) is submitted.
- (2) The same test methods and procedures as required by this subpart were used in the test.
- (3) The owner or operator certifies that no design or work practice changes have been made to the source, process, or emission control equipment since the time of the report.
- (4) All process and control equipment operating parameters required to be monitored were monitored as required in this subpart and documented in the test report.

**§ 63.1512 Performance test/compliance demonstration requirements and procedures.**

(j) *Secondary aluminum processing unit.* The owner or operator must conduct performance tests as described in paragraphs (j)(1) through (3) of this section. The results of the performance tests are used to establish emission rates in lb/ton of feed/charge for PM and HCl and µg TEQ/Mg of feed/charge for D/F emissions from each emission unit. These emission rates are used for compliance monitoring in the calculation of the 3-day, 24-hour rolling average emission rates using the equation in §63.1510(t). A performance test is required for:

(2) Each group 1 furnace that processes scrap other than clean charge to measure emissions of PM and D/F and either:

(k) *Feed/charge weight measurement.* During the emission test(s) conducted to determine compliance with emission limits in a kg/Mg (lb/ton) format, the owner or operator of an affected source or emission unit, subject to an emission limit in a kg/Mg (lb/ton) of feed/charge format, must measure (or otherwise determine) and record the total weight of feed/charge to the affected source or emission unit for each of the three test runs and calculate and record the total weight. An owner or operator that chooses to demonstrate compliance on the basis of the aluminum production weight must measure the weight of aluminum produced by the emission unit or affected source instead of the feed/charge weight.

(r) *Labeling.* The owner or operator of each scrap dryer/delacquering kiln/decoating kiln, group 1 furnace, group 2 furnace and in-line fluxer must submit the information described in §63.1515(b)(3) as part of the notification of compliance status report to document conformance with the operational standard in §63.1506(b).

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79817, Dec. 30, 2002; 69 FR 53984, Sept. 3, 2004]

**§ 63.1513 Equations for determining compliance.**

(b) *PM, HCl and D/F emission limits.*

(2) Use Equation 7A of this section to determine compliance with an emission limit for D/F:

$$E = \frac{C \times Q}{P} \quad (\text{Eq. 7A})$$

Where:

E = Emission rate of D/F, µg/Mg (gr/ton) of feed;

C = Concentration of D/F, µg/dscm (gr/dscf);

Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr); and

P = Production rate, Mg/hr (ton/hr).

(d) *Conversion of D/F measurements to TEQ units.* To convert D/F measurements to TEQ units, the owner or operator must use the procedures and equations in "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update" (EPA-625/3-89-016), incorporated by reference in §63.1502 of this subpart, available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia, NTIS no. PB 90-145756.

(e) *Secondary aluminum processing unit.* Use the procedures in paragraphs (e)(1), (2), and (3) or the procedure in paragraph (e)(4) of this section to determine compliance with emission limits for a secondary aluminum processing unit.

(3) Use Equation 11 to compute the aluminum mass-weighted D/F emissions for the secondary aluminum processing unit. Compliance is achieved if the mass-weighted emissions for the secondary aluminum processing unit is less than or equal to the emission limit for the secondary aluminum processing unit ( $L_{CD/F}$ ) calculated using Equation 3 in §63.1505(k).

$$E_{CD/F} = \frac{\sum_{i=1}^n (E_{tiD/F} \times T_{ti})}{\sum_{i=1}^n (T_{ti})} \quad (\text{Eq. 11})$$

Where,

$E_{CD/F}$  = The mass-weighted D/F emissions for the secondary aluminum processing unit; and

$E_{tiD/F}$  = Measured D/F emissions for individual emission unit  $i$ .

(4) As an alternative to using the equations in paragraphs (e)(1), (2), and (3) of this section, the owner or operator may demonstrate compliance for a secondary aluminum processing unit by demonstrating that each existing group 1 furnace is in compliance with the emission limits for a new group 1 furnace in §63.1505(i) and that each existing in-line fluxer is in compliance with the emission limits for a new in-line fluxer in §63.1505(j).

[65 FR 15710, Mar. 23, 2000, as amended at 69 FR 53984, Sept. 3, 2004]

## Notifications, Reports, And Records

### § 63.1515 Notifications.

(a) *Initial notifications.* The owner or operator must submit initial notifications to the applicable permitting authority as described in paragraphs (a)(1) through (7) of this section.

(1) As required by §63.9(b)(1), the owner or operator must provide notification for an area source that subsequently increases its emissions such that the source is a major source subject to the standard.

(6) As required by §63.9(e) and (f), the owner or operator must provide notification of the anticipated date for conducting performance tests and visible emission observations. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.

(b) *Notification of compliance status report.* Each owner or operator of an existing affected source must submit a notification of compliance status report within 60 days after the compliance date established by §63.1501(a). Each owner or operator of a new affected source must submit a notification of compliance status report within 90 days after conducting the initial performance test required by §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the information specified in paragraphs (a)(1) through (10) of this section. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. In a State with an approved operating permit program where delegation of authority under section 112(l) of the CAA has not been requested or approved, the owner or operator must provide duplicate notification to the applicable Regional Administrator. If an owner or operator submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include:

(1) All information required in §63.9(h). The owner or operator must provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete

performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests).

(3) Unit labeling as described in §63.1506(b), including process type or furnace classification and operating requirements.

(4) The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value ( e.g., lime injection rate, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.

(9) The OM&M plan (including site-specific monitoring plan for each group 1 furnace with no add-on air pollution control device).

(10) Startup, shutdown, and malfunction plan, with revisions.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 59793, Sept. 24, 2002; 67 FR 79818, Dec. 30, 2002]

### § 63.1516 Reports.

(a) *Startup, shutdown, and malfunction plan/reports.* The owner or operator must develop a written plan as described in §63.6(e)(3) that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The owner or operator shall also keep records of each event as required by §63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in §63.6(e)(3). In addition to the information required in §63.6(e)(3), the plan must include:

(1) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and

(2) Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions.

(b) *Excess emissions/summary report.* The owner or operator must submit semiannual reports according to the requirements in §63.10(e)(3). Except, the owner or operator must submit the semiannual reports within 60 days after the end of each 6-month period instead of within 30 days after the calendar half as specified in §63.10(e)(3)(v). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period.

(1) A report must be submitted if any of these conditions occur during a 6-month reporting period:

(iv) An excursion of a compliant process or operating parameter value or range ( e.g., lime injection rate or screw feeder setting, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature, definition of acceptable scrap, or other approved operating parameter).

(v) An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan as described in §63.6(e)(3).

(vi) An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of this subpart.

(vii) A deviation from the 3-day, 24-hour rolling average emission limit for a secondary aluminum processing unit.

(3) The owner or operator must submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.

(c) *Annual compliance certifications.* For the purpose of annual certifications of compliance required by 40 CFR part 70 or 71, the owner or operator must certify continuing compliance based upon, but not limited to, the following conditions:

(1) Any period of excess emissions, as defined in paragraph (b)(1) of this section, that occurred during the

year were reported as required by this subpart; and

(2) All monitoring, recordkeeping, and reporting requirements were met during the year.

[65 FR 15710, Mar. 23, 2000, as amended at 69 FR 53984, Sept. 3, 2004; 71 FR 20461, Apr. 20, 2006]

### **§ 63.1517 Records**

(a) As required by §63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and this subpart.

(1) The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site.

(2) The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and

(3) The owner or operator may report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.

(b) In addition to the general records required by §63.10(b), the owner or operator of a new or existing affected source (including an emission unit in a secondary aluminum processing unit) must maintain records of:

(5) For each group 1 furnace (with or without add-on air pollution control devices) or in-line fluxer, records of 15-minute block average weights of gaseous or liquid reactive flux injection, total reactive flux injection rate and calculations (including records of the identity, composition, and weight of each addition of gaseous, liquid or solid reactive flux), including records of any period the rate exceeds the compliant operating parameter value and corrective action taken.

(7) For each affected source and emission unit subject to an emission standard in kg/Mg (lb/ton) of feed/charge, records of feed/charge (or throughput) weights for each operating cycle or time period used in the performance test.

(13) Records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements.

(14) Records of annual inspections of emission capture/collection and closed vent systems.

(15) Records for any approved alternative monitoring or test procedure.

(16) Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:

(i) Startup, shutdown, and malfunction plan;

(ii) OM&M plan; and

(iii) Site-specific secondary aluminum processing unit emission plan (if applicable).

(17) For each secondary aluminum processing unit, records of total charge weight, or if the owner or operator chooses to comply on the basis of aluminum production, total aluminum produced for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79818, Dec. 30, 2002]

### **Other**

#### **§ 63.1518 Applicability of general provisions.**

The requirements of the general provisions in subpart A of this part that are applicable to the owner or operator subject to the requirements of this subpart are shown in appendix A to this subpart.

#### **§ 63.1519 Implementation and enforcement.**

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the

applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this regulation. Contact the applicable U.S. EPA Regional Office to find out if this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this regulation to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to the requirements in §§63.1500 through 63.1501 and 63.1505 through 63.1506.

(2) Approval of major alternatives to test methods for under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

[68 FR 37359, June 23, 2003]

§ 63.1520 [Reserved]

**Table 2 to Subpart RRR of Part 63—Summary of Operating Requirements for New and Existing Affected Sources and Emission Units**

Affected source/emission unit	Monitor type/operation/process	Operating requirements
All affected sources and emission units subject to production-based (lb/ton of feed) emission limits <sup>a</sup>	Charge/feed weight or Production weight	Operate a device that records the weight of each charge; Operate in accordance with OM&M plan. <sup>b</sup>
Group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln/decoating kiln	Labeling	Identification, operating parameter ranges and operating requirements posted at affected sources and emission units; control device temperature and residence time requirements posted at scrap dryer/delacquering kiln/decoating kiln.

<sup>a</sup>Thermal chip dryers, scrap dryers/delacquering kilns/decoating kilns, dross-only furnaces, in-line fluxers and group 1 furnaces including melting/holding furnaces.

<sup>b</sup>OM&M plan—Operation, maintenance, and monitoring plan.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79818, Dec. 30, 2002; 69 FR 53984, Sept. 3, 2004]

**Table 3 to Subpart RRR of Part 63—Summary of Monitoring Requirements for New and Existing Affected Sources and Emission Units**

Affected source/Emission unit	Monitor type/Operation/Process	Monitoring requirements
All affected sources and emission units subject to production-based (lb/ton of feed/charge) emission limits <sup>a</sup>	Feed/charge weight	Record weight of each feed/charge, weight measurement device or other procedure accuracy of ±1% <sup>b</sup> ; calibrate according to manufacturers specifications, or at least

Affected source/Emission unit	Monitor type/Operation/Process	Monitoring requirements
		once every 6 months.
Group 1 furnace, group 2 furnace, in-line fluxer, and scrap dryer/delacquering kiln/decoating kiln	Labeling	Check monthly to confirm that labels are intact and legible.

<sup>a</sup>Thermal chip dryers, scrap dryers/delacquering kilns/decoating kilns, dross-only furnaces, in-line fluxers and group 1 furnaces or melting/holding furnaces.

<sup>b</sup>Permitting agency may approve measurement devices of alternative accuracy, for example in cases where flux rates are very low and costs of meters of specified accuracy are prohibitive; or where feed/charge weighing devices of specified accuracy are not practicable due to equipment layout or charging practices.

[65 FR 15710, Mar. 23, 2000, as amended at 69 FR 53985, Sept. 3, 2004]

**Appendix A to Subpart RRR of Part 63—General Provisions Applicability to Subpart RRR**

Citation	Requirement	Applies to RRR	Comment
§63.1(a)(1)–(4)	General Applicability	Yes.	
§63.1(a)(5)		No	[Reserved].
§63.1(a)(6)–(8)		Yes.	
§63.1(a)(9)		No	[Reserved].
§63.1(a)(10)–(14)		Yes.	
§63.1(b)	Initial Applicability Determination	Yes	EPA retains approval authority.
§63.1(c)(1)	Applicability After Standard Established	Yes.	
§63.1(c)(2)		Yes	§63.1500(e) exempts area sources subject to this subpart from the obligation to obtain Title V operating permits.
§63.1(c)(3)		No	[Reserved].
§63.1(c)(4)–(5)		Yes.	
§63.1(d)		No	[Reserved].
§63.1(e)	Applicability of Permit Program	Yes.	
§63.2	Definitions	Yes	Additional definitions in §63.1503.
§63.3	Units and Abbreviations	Yes	
§63.4(a)(1)–(3)	Prohibited Activities	Yes.	
§63.4(a)(4)		No	[Reserved]
§63.4(a)(5)		Yes.	
§63.4(b)–(c)	Circumvention/ Severability	Yes.	
§63.5(a)	Construction and	Yes.	

Citation	Requirement	Applies to RRR	Comment
	Reconstruction—Applicability		
§63.5(b)(1)	Existing, New, Reconstructed Sources—Requirements	Yes.	
§63.5(b)(2)		No	[Reserved].
§63.5(b)(3)–(6)		Yes.	
§63.5(c)		No	[Reserved].
§63.5(d)	Application for Approval of Construction/ Reconstruction	Yes.	
§63.5(e)	Approval of Construction/ Reconstruction	Yes.	
§63.5(f)	Approval of Construction/Reconstruction Based on State Review	Yes.	
§63.6(a)	Compliance with Standards and Maintenance—Applicability	Yes.	
§63.6(b)(1)–(5)	New and Reconstructed Sources—Dates	Yes.	
§63.6(b)(6)		No	[Reserved].
§63.6(b)(7)		Yes.	
§63.6(c)(1)	Existing Sources Dates	Yes	§63.1501 specifies dates.
§63.6(c)(2)		Yes.	
§63.6(c)(3)–(4)		No	[Reserved].
§63.6(c)(5)		Yes.	
§63.6(d)		No	[Reserved].
§63.6(e)(1)–(2)	Operation & Maintenance Requirements	Yes	§63.1510 requires plan.
§63.6(e)(3)	Startup, Shutdown, and Malfunction Plan	Yes.	
§63.6(f)	Compliance with Emission Standards	Yes.	
§63.6(g)	Alternative Standard	No	
§63.6(h)	Compliance with Opacity/VE Standards	Yes.	
§63.6(i)(1)–(14)	Extension of Compliance	Yes.	
§63.6(i)(15)		No	[Reserved].
§63.6(i)(16)		Yes.	
§63.6(j)	Exemption from Compliance	Yes.	
§63.7(a)–(h)	Performance Test	Yes	Except §63.1511 establishes dates for initial

Citation	Requirement	Applies to RRR	Comment
	Requirements-Applicability and Dates		performance tests.
§63.7(b)	Notification	Yes.	
§63.7(c)	Quality Assurance/Test Plan	Yes.	
§63.7(d)	Testing Facilities	Yes.	
§63.7(e)	Conduct of Tests	Yes.	
§63.7(f)	Alternative Test Method	Yes.	
§63.7(g)	Data Analysis	Yes.	
§63.7(h)	Waiver of Tests	Yes.	
§63.8(a)(1)	Monitoring Requirements—Applicability	Yes.	
§63.8(a)(2)		Yes.	
§63.8(a)(3)		No	[Reserved]
§63.8(a)(4)		Yes	
§63.8(b)	Conduct of Monitoring	Yes.	
§63.8(c)(1)–(3)	CMS Operation and Maintenance	Yes.	
§63.8(c)(4)–(8)		Yes.	
§63.8(d)	Quality Control	Yes.	
§63.8(e)	CMS Performance Evaluation	Yes.	
§63.8(f)(1)–(5)	Alternative Monitoring Method	No	§63.1510(w) includes provisions for monitoring alternatives.
§63.8(f)(6)	Alternative to RATA Test	Yes.	
§63.8(g)(1)	Data Reduction	Yes.	
§63.8(g)(2)		No	§63.1512 requires five 6-minute averages for an aluminum scrap shredder.
§63.8(g)(3)–(5)		Yes.	
§63.9(a)	Notification Requirements—Applicability	Yes.	
§63.9(b)	Initial Notifications	Yes.	
§63.9(c)	Request for Compliance Extension	Yes.	
§63.9(d)	New Source Notification for Special Compliance Requirements	Yes.	
63.9(e)	Notification of Performance Test	Yes.	
§63.9(f)	Notification of VE/Opacity Test	Yes.	
§63.9(g)	Additional CMS Notifications	Yes.	

Citation	Requirement	Applies to RRR	Comment
§63.9(h)(1)–(3)	Notification of Compliance Status	Yes	Except §63.1515 establishes dates for notification of compliance status reports.
§63.9(h)(4)		No	[Reserved].
§63.9(h)(5)–(6)		Yes.	
§63.9(i)	Adjustment of Deadlines	Yes.	
§63.9(j)	Change in Previous Information	Yes.	
§63.10(a)	Recordkeeping/Reporting—Applicability	Yes.	
§63.10(b)	General Requirements	Yes	§63.1517 includes additional requirements.
§63.10(c)(1)	Additional CMS Recordkeeping	Yes.	
§63.10(c)(2)–(4)		No	[Reserved].
§63.10(c)(5)		Yes.	
§63.10(c)(6)		Yes.	
§63.10(c)(7)–(8)		Yes.	
§63.10(c)(9)		No	[Reserved].
§63.10(c)(10)–(13)		Yes.	
§63.10(c)(14)		Yes.	
§63.10(d)(1)	General Reporting Requirements	Yes.	
§63.10(d)(2)	Performance Test Results	Yes.	
§63.10(d)(3)	Opacity or VE Observations	Yes.	
§63.10(d)(4)–(5)	Progress Reports/Startup, Shutdown, and Malfunction Reports	Yes.	
§63.10(e)(1)–(2)	Additional CMS Reports	Yes.	
§63.10(e)(3)	Excess Emissions/CMS Performance Reports	Yes	Reporting deadline given in §63.1516.
§63.10(e)(4)	COMS Data Reports	Yes.	
§63.10(f)	Recordkeeping/Reporting Waiver	Yes.	
§63.11(a)–(b)	Control Device Requirements	No	Flares not applicable.
§63.12(a)–(c)	State Authority and Delegations	Yes.	EPA retains authority for applicability determinations.
§63.13	Addresses	Yes.	
§63.14	Incorporation by Reference	Yes	Chapters 3 and 5 of ACGIH Industrial

<b>Citation</b>	<b>Requirement</b>	<b>Applies to RRR</b>	<b>Comment</b>
			Ventilation Manual for capture/collection systems; and Interim Procedures for Estimating Risk Associated with Exposure to Mixtures of Chlorinated Dibenzofurans (CDDs and CDFs) and 1989 Update (incorporated by reference in §63.1502).
§63.15	Availability of Information/Confidentiality	Yes.	

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 59793, Sept. 24, 2002; 67 FR 79818, Dec. 30, 2002; 69 FR 53986, Sept. 3, 2004; 70 FR 75346, Dec. 19, 2005]

**SECTION D.2 FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-6.1-5(a)(1)]:**

- (c) One (1) primary scrap shredder (identified as EU04), with a maximum capacity of 3.50 tons of aluminum scrap per hour, exhausting at North stack 2. This unit was constructed in 1981.
- (d) One (1) auxiliary scrap shredder (identified as EU05), with a maximum capacity of 1.75 tons of aluminum scrap per hour. This unit was installed in 1997.
- (e) Aluminum sow mold casting operation (identified as EU06), consisting of a casting operation, pouring/cooling, and a manual knockout process for furnace #1, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1981.
- (f) Aluminum sow mold casting operation (identified as EU07), consisting of a casting operation, pouring/cooling, and a manual knockout process for furnace #2, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1989.
- (g) One (1) hot dross cooling process for furnace #1 (identified as EU08), with a maximum throughput rate of 105 pounds of dross per hour.
- (h) One (1) hot dross cooling process for furnace #2 (identified as EU09), with a maximum throughput rate of 105 pounds of dross per hour.

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

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

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the aluminum scrap shredders and aluminum casting facilities shall not exceed the pound per hour allowable emission rate as shown in the following table:

Emission Units	Process Weight Rate		Allowable Particulate Emission Rate (lbs/hour)
	(tons/hour)	(lbs/hour)	
Each of the Aluminum Casting facilities consisting of: Aluminum Casting Pouring/Cooling Manual Knockout	1.75	3,500	5.97
One (1) Primary Aluminum Scrap Shredder	3.50	7,000	9.49
One (1) Auxiliary Scrap Shredder	1.75	3,500	5.97

The pound per hour allowable emission rate was calculated using 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

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

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

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

<b>Company Name:</b>	Intrametco Processing, Inc.
<b>Address:</b>	1901 West Louisiana
<b>City:</b>	Evansville, Indiana 47710
<b>Phone #:</b>	(812) 423-5914
<b>MSOP #:</b>	M163-18011-00071

I hereby certify that Intrametco Processing, Inc. is

- still in operation.  
 no longer in operation.

I hereby certify that Intrametco Processing, Inc. is

- in compliance with the requirements of MSOP 163-18011-00071  
 not in compliance with the requirements of MSOP 163-18011-00071

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

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.

<b>Noncompliance:</b>

**MALFUNCTION REPORT**

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

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

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

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

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

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

COMPANY: \_\_\_\_\_ 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:

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**MINOR SOURCE OPERATING PERMIT (MSOP)  
CERTIFICATION**

Source Name: Intrametco Processing, Inc.  
Source Address: 1901 West Louisiana, Evansville, Indiana 47710  
Mailing Address: P.O. Box 364, Evansville, Indiana 47703  
MSOP No.: M163-18011-00071

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

Please check what document is being certified:

- Test Result (specify)\_\_\_\_\_
- Report (specify)\_\_\_\_\_
- Notification (specify)\_\_\_\_\_
- Affidavit (specify)\_\_\_\_\_
- Other (specify)\_\_\_\_\_

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

Signature:

Printed Name:

Title/Position:

Date:

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

Addendum to the  
Technical Support Document (TSD)  
for a New Source Review and Minor Source Operating Permit

**Source Background and Description**

Source Name:	Intrametco Processing, Inc.
Source Location:	1901 West Louisiana, Evansville, Indiana 47710
County:	Vanderburgh
SIC Code:	3341
Operation Permit No.:	M163-18011-00071
Permit Reviewer:	ERG/YC

On August 24, 2005, the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) had a notice published in the Evansville Courier, Vanderburgh, Indiana, stating that Intrametco Processing, Inc. (referred to as Intrametco) had applied for a Minor Source Operating Permit (MSOP) to operate a stationary secondary aluminum processing plant. The notice also stated that IDEM, OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On December 13, 2005, Intrametco Processing, Inc. submitted comments on the proposed permit. The summary of the comments and responses are shown below. Deleted text is shown in ~~strikeout~~ and new text is shown in **bold**. The TOC has been updated as necessary.

**Comment 1:**

The Permittee indicated the existence of two (2) hot cross handling processes (identified as EU08 and EU09) and one (1) auxiliary scrap shredder (identified as EU05). The auxiliary scrap shredder has a maximum capacity of 1.75 tons of aluminum scrap per hour, and is used to shred aluminum pieces that are deemed too large, prior to the primary scrap shredder. The emissions from the auxiliary scrap shredder are negligible. Furthermore, the Permittee requested the description for the aluminum sow mold casting operation be revised to one casting operation for each electric induction furnace. The Permittee also stated that the existing primary scrap shredder is uncontrolled.

The Permittee requested the following description changes to Condition A.2:

**A.2 Emissions Units and Pollution Control Equipment Summary**

---

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

- (a) One (1) electric induction furnace (identified as EU01), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 20 pounds of flux per 16,500 pounds of product ~~per hour~~, controlled by a baghouse (identified as South baghouse 2) and exhausting at **South** stack 1. This unit was constructed in 1981.
- (b) One (1) electric induction furnace (identified as EU02), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 25 pounds of flux

- per 16,500 pounds of product, controlled by a baghouse (identified as North baghouse 1) and exhausting at **North** stack 2. This unit was constructed in ~~1981~~**1989**.
- (c) One (1) **primary** scrap shredder (identified as EU04), with a maximum capacity of 3.50 tons of aluminum scrap per hour, ~~controlled by a baghouse (identified as North baghouse 1) and~~ exhausting at **North** stack 2. This unit was constructed in 1981.
  - (d) **One (1) auxiliary scrap shredder (identified as EU05), with a maximum capacity of 1.75 tons of aluminum scrap per hour. This unit was installed in 1997.**
  - (de) Aluminum sow mold casting operation (**identified as EU06**), consisting of a casting operation, pouring/cooling, and a manual knockout process **for furnace #1**, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1981.
  - (f) **Aluminum sow mold casting operation (identified as EU07), consisting of a casting operation, pouring/cooling, and a manual knockout process for furnace #2, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1989.**
  - (g) **One (1) hot dross cooling process for furnace #1 (identified as EU08), handling 105 pounds of dross per hour.**
  - (h) **One (1) hot dross cooling process for furnace #2 (identified as EU09), handling 105 pounds of dross per hour.**

#### Response to Comment 1:

The potential to emit of the auxiliary scrap shredder (EU05) and the dross cooling operations (EU08 and EU09) is calculated in the Appendix A to this Addendum. The potential to emit PM from the auxiliary scrap shredder (EU05) is greater than 0.551 lbs/hr, which is equivalent to 2.41 tons/hr. Therefore, particulate emissions from shredder EU05 are subject to the requirements of IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes). Pursuant to 326 IAC 6-3-2, particulate emissions from shredder EU05 shall not exceed  $4.1 \times (1.75)^{0.67} = 5.97$  lbs/hr when operating at a maximum throughput rate of 1.75 tons of scrap per hour.

The potential to emit PM from each dross cooling process is less than 0.551 lbs/hr. Therefore, dross cooling processes (EU08 and EU09) units are exempt from the requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), pursuant to 326 IAC 6-3-1(b)(14).

Condition A.2 and the description boxes for Sections D.1 and D.2 have been revised as follows to reflect the changes proposed in this comment. Condition D.2.1 has been revised to include the particulate emission limit for the auxiliary scrap shredder (EU05). IDEM, OAQ has decided to remove the testing requirements in Condition D.2.2 for the primary aluminum scrap shredder since the potential to emit from this unit is much less than the particulate emission limit for this unit.

#### A.2 Emissions Units and Pollution Control Equipment Summary

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

- (a) One (1) electric induction furnace (identified as EU01), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 20 pounds of flux per 16,500 pounds of product ~~per hour~~, controlled by a baghouse (identified as South baghouse 2) and exhausting at **South** stack 1. This unit was constructed in 1981.
- (b) One (1) electric induction furnace (identified as EU02), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 25 pounds of flux

- per 16,500 pounds of product, controlled by a baghouse (identified as North baghouse 1) and exhausting at **North** stack 2. This unit was constructed in ~~1981~~**1989**.
- (c) One (1) **primary** scrap shredder (identified as EU04), with a maximum capacity of 3.50 tons of aluminum scrap per hour, ~~controlled by a baghouse (identified as North baghouse 1) and~~ exhausting at **North** stack 2. This unit was constructed in 1981.
  - (d) **One (1) auxiliary scrap shredder (identified as EU05), with a maximum capacity of 1.75 tons of aluminum scrap per hour. This unit was installed in 1997.**
  - (de) Aluminum sow mold casting operation (**identified as EU06**), consisting of a casting operation, pouring/cooling, and a manual knockout process **for furnace #1**, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1981.
  - (f) **Aluminum sow mold casting operation (identified as EU07), consisting of a casting operation, pouring/cooling, and a manual knockout process for furnace #2, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1989.**
  - (g) **One (1) hot dross cooling process for furnace #1 (identified as EU08), with a maximum throughput rate of 105 pounds of dross per hour.**
  - (h) **One (1) hot dross cooling process for furnace #2 (identified as EU09), with a maximum throughput rate of 105 pounds of dross per hour.**

#### SECTION D.1

#### FACILITY OPERATION CONDITIONS

##### Facility Description [326 IAC 2-6.1-5(a)(1)]:

- (a) One (1) electric induction furnace (identified as EU01), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 20 pounds of flux per 16,500 pounds of product ~~per hour~~, controlled by a baghouse (identified as South baghouse 2) and exhausting at **South** stack 1. This unit was constructed in 1981.
- (b) One (1) electric induction furnace (identified as EU02), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 25 pounds of flux per 16,500 pounds of product, controlled by a baghouse (identified as North baghouse 1) and exhausting at **North** stack 2. This unit was constructed in ~~1981~~**1989**.

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

#### SECTION D.2

#### FACILITY OPERATION CONDITIONS

##### Facility Description [326 IAC 2-6.1-5(a)(1)]:

- (c) One (1) **primary** scrap shredder (identified as EU04), with a maximum capacity of 3.50 tons of aluminum scrap per hour, ~~controlled by a baghouse (identified as North baghouse 1) and~~ exhausting at **North** stack 2. This unit was constructed in 1981.
- (d) **One (1) auxiliary scrap shredder (identified as EU05), with a maximum capacity of 1.75 tons of aluminum scrap per hour. This unit was installed in 1997.**
- (de) Aluminum sow mold casting operation (**identified as EU06**), consisting of a casting operation, pouring/cooling, and a manual knockout process **for furnace #1**, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1981.

- (f) **Aluminum sow mold casting operation (identified as EU07), consisting of a casting operation, pouring/cooling, and a manual knockout process for furnace #2, with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1989.**
  - (g) **One (1) hot dross cooling process for furnace #1 (identified as EU08), with a maximum throughput rate of 105 pounds of dross per hour.**
  - (h) **One (1) hot dross cooling process for furnace #2 (identified as EU09), with a maximum throughput rate of 105 pounds of dross per hour.**
- (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the aluminum scrap shredders and aluminum casting facilities shall not exceed the pound per hour **allowable emission rate limit** as shown in the following table:

Emission Units	Process Weight Rate		Allowable Particulate Emission Rate Limit (lbs/hour)
	(tons/hour)	(lbs/hour)	
Each of the Aluminum Casting facilities consisting of: Aluminum Casting Pouring/Cooling Manual Knockout	1.75	3,500	5.97
One (1) <b>Primary</b> Aluminum Scrap Shredder	3.50	7,000	9.49
<b>One (1) Auxiliary Scrap Shredder</b>	<b>1.75</b>	<b>3,500</b>	<b>5.97</b>

The pound per hour ~~limit~~ **allowable emission rate** was calculated using the following equation:

...

**D.2.2 Testing Requirements**

~~During the period between 30 and 36 months after the issuance of this permit, in order to demonstrate compliance with Condition D.2.1, the Permittee shall perform PM and PM10 testing for the aluminum scrap shredder utilizing methods as approved by the commissioner. This test shall be repeated at least every five (5) years from the date of this valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C-Performance Testing.~~

**Comment 2:**

The Permittee indicated that PM and PM10 emission factors used in the calculations are not representative of Intrametco's source operations. PM and PM10 emission factors from U.S. EPA Factor Information Retrieval (FIRE) system used in the proposed permit for pouring/cooling operations are for Gray Iron Foundries (SCC# 3-04-003-18). FIRE only includes emission factors for NOx, SOx and VOC for pouring and casting operations within the secondary aluminum industry (SCC# 3-04-001-14). There are no emission factors for PM and PM10 in FIRE or U.S. EPA AP-42. Other Title V and Federally Enforceable State Operating Permits (FESOP) for secondary aluminum operations list zero PM and PM10 emissions from the pouring and casting operations (Superior Aluminum Alloys T003-11452- 00286, M.C. Aluminum America F005-14161-00043, Transmetco, Inc. F069-19488-00067, Wabash Alloys T159-14125-00008). Furthermore, the casting and knock-out process operations are not accurately estimated in the permit because Intrametco does not utilize any sand in its casting processes. Molten aluminum is poured into

empty sow molds and allowed to cool. When the sows have solidified they are lifted from the molds by forklift. An emission factor for an automated knock-out machine was used to calculate the emissions for Intrametco's knock out process, which is based on a sand mold process and is not representative of Intrametco's operations.

**Comment 3:**

The Permittee stated that the hydrogen chloride (HCl) emission factor used in the permit is not representative because it is for chlorine (Cl) gas fluxing in demagging operations. Intrametco uses a salt cover flux and does not use any Cl gas. The Permittee requested to remove the HCl emission calculations for the induction furnaces at this source.

**Comment 4:**

The Permittee stated that dross is generated from the melting process at a maximum rate of three percent (3%) of the total metal input. The Permittee proposed to use the PM emission factor of 0.15 pounds of ton of dross cooled and PM10 emission factor of 0.20 pounds of ton of dross cooled for the dross cooling processes. The proposed emission factors were developed using the stack test results at Aluminum Recovery Technologies in September 2003 and adding in a safety factor.

**Response to Comments 2 through 4:**

IDEM, OAQ agrees to remove the PM/PM10 emission calculations for the aluminum pouring/cooling process since the source does not pour into sand molds. IDEM, OAQ also revised the emission calculations for the dross cooling operations using the emission factors proposed by the source because they are based on the IDEM's approved stack test result for a similar source. The emission calculations for the HCl emissions from the furnaces remain unchanged because the PTE of HCl was calculated assuming that all the salt in the flux will convert to HCl emissions (worst case scenario). The revised PTE calculations are attached as Appendix A to this Addendum.

The revised "Potential to Emit of the Source Before Controls" table is shown below:

Pollutant	Potential to Emit (tons/year)
PM	<del>99.0</del> <b>51.5</b>
PM10	<del>86.5</del> <b>43.9</b>
SO <sub>2</sub>	<del>0.15</del> <b>0.31</b>
VOC	<del>41.3</del> <b>22.7</b>
CO	0.00
NO <sub>x</sub>	<del>0.08</del> <b>0.15</b>

However, no changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

**Comment 5:**

The Permittee stated that Preventative Maintenance Plan (Condition D.1.7) be revised because there is no provision requiring approval from the permitting authority for the OMM Plan. Also, the current rule citation in Condition D.1.2 [326 IAC 2-7-5(13)] pertains to Part 70 sources only, requiring this plan for an MSOP is unsubstantiated.

**Response to Comment 5:**

The OMM plan is required pursuant to the provisions of 40 CFR 63.1510(b), Subpart RRR and is deemed to satisfy the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plans). Pursuant to 326 IAC 1-6-3(b), the Permittee is not required to submit a copy of the Preventive Maintenance

Plan to IDEM unless requested by the commissioners. Condition D.1.7 (now listed as Condition D.1.2) has been revised as shown below:

**D.1.72 Preventive Maintenance Plan** ~~[326 IAC 2-7-5(13)]~~ **[326 IAC 1-6-3]**

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their baghouses. If the OMM plan required by ~~Condition D.1.5~~ **40 CFR 63.1510(b)** is developed in accordance with Section B - Preventive Maintenance Plans, then ~~after the OMM plan has been approved~~, it shall satisfy the requirements of this condition.

**Comment 6:**

The Permittee has requested to revise their normal operating range for the pressure drop across the baghouses are from 1 to 10 inches of water to 0.5 and 7.0 inches of water as given in Condition D.1.15.

**Response to Comment 6:**

Without proper supporting documents, a low pressure drop reading of 0.5 inch of water for baghouse is not acceptable for IDEM. If the Permittee wishes to make this change to the lower bond of the pressure drop reading range, a proper supporting documentation from the baghouse manufacturers is required. In addition, "Compliance Response Plan" requirements have been replaced by "Response to Excursions or Exceedances" and Instrument Specifications Conditions in Section C has been revised also (see the additional changes proposed by IDEM section, item 5). Condition D.1.15 (now listed as Condition D.1.4) has been revised as follows:

**D.1.154 Parametric Monitoring**

The Permittee shall record the ~~total static~~ pressure drop across the two (2) baghouse stack exhausts at least ~~daily~~ **once per day** when the furnaces are in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and ~~407.0~~ inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - ~~Compliance Response to Excursions or Exceedances Plan - Preparation, Implementation, Records, and Reports~~. 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 - ~~Compliance Response to Excursions or Exceedances Plan - Preparation, Implementation, Records, and Reports~~, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other Instrument Specifications~~, of this permit, shall be subject to approval by IDEM, OAQ **and EEPA**, and shall be calibrated at least once every six (6) months.

**Comment 7:**

The Permittee indicated that under Table 1 to Subpart RRR – Emission Standards for New and Existing Affected Sources, the pollutants listed in the table are HCl and D/F, while the corresponding emission limits listed are for PM and HCl. The only emission limit that is applicable to Intrametco is D/F at 15 micrograms TEQ/ Mg of production.

**Response to Comment 7:**

IDEM has decided to include the verbatim language for NESHAP, Subpart RRR in this permit. Therefore, Tables listed under the NESHAP are now included. Conditions in Section D.1 of the permit have been revised as follows:

~~D.1.1 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]~~

~~The provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to the two (2) electric induction furnaces (identified as EU1 and EU2) except when otherwise specified in 40 CFR Part 63, Subpart RRR.~~

~~D.1.2 Secondary Aluminum Production Emission Limits [40 CFR Part 63.1505, Subpart RRR]~~

~~Pursuant to 40 CFR Part 63.1505(i) and 40 CFR 63.1505(k), the Permittee shall comply with the following emission limitations for the two (2) electric induction furnaces (identified as EU1 and EU2).~~

- ~~(a) The Permittee shall not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of total tetra-, penta-, hexa-, and octachlorinated dibenzo-dioxins and furans (D/F) in excess of:~~

$$\del L_{CD/F} = \frac{\sum_{i=1}^n (L_{iD/F} \times T_i)}{\sum_{i=1}^n T_i}$$

Where

- ~~$L_{iD/F}$  = The D/F emission limit for individual emission unit, i, in the secondary processing unit;~~  
 ~~$L_{CD/F}$  = The D/F emission limit for secondary aluminum processing unit;~~  
 ~~$T_i$  = The feed/charge rate for individual emission unit, i~~

- ~~(b) The D/F emission limit ( $L_{CD/F}$ ) for a Group 1 furnace without an in-line fluxer (Electric induction furnaces EU1 and EU2) at a secondary aluminum production facility shall be limited to 15 micrograms ( $\mu\text{g}$ ) of D/F TEQ per megagram ( $2.1 \times 10^{-4}$  gr of D/F TEQ per ton) of feed/charge, where TEQ is the toxicity equivalents for dioxins and furans as defined in 40 CFR 60.2125 (July 2001).~~

~~D.1.3 Labeling [40 CFR Part 63.1506(b)]~~

~~The Permittee shall provide and maintain easily visible labels posted at the two (2) electric induction furnaces that identifies the applicable emission limits and means of compliance, including:~~

- ~~(a) The type of affected source or emission unit; and~~  
~~(b) The applicable operational standards and control methods (work practice or control device). This includes, but is not limited to, the type of charge to be used for a furnace (e.g., clean scrap only, all scrap, etc.), flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in Condition D.1.5.~~

~~D.1.4 Capture and Control Systems [40 CFR Part 63.1506(c)]~~

~~The Permittee shall design and install a system for the capture and collection of emissions to meet the engineering standards for minimum exhaust rates as published by the American Conference of Governmental Industrial Hygienists in chapters 3 and 5 of "Industrial Ventilation: A Manual of Recommended Practice" (incorporated by reference: 40 CFR 63.1502). The Permittee shall vent captured emissions through a closed system, except that dilution air may be added to emission streams for the purpose of controlling temperature at the inlet to a fabric filter; and operate each capture/collection system according to the procedures and requirements in Condition D.1.5.~~

~~D.1.5 Operation, Maintenance, and Monitoring (OMM) Plan [40 CFR 63.1510(b)]~~

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~~The Permittee shall prepare and implement for the two electric induction furnaces EU1 and EU2, a written Operation, Maintenance, and Monitoring (OMM) plan. The Permittee shall submit the plan to IDEM, OAQ for review and approval as part of the application for a Part 70 permit. Any subsequent changes to the plan must be submitted to IDEM, OAQ for review and approval. Pending approval by IDEM, OAQ of an initial or amended plan, the Permittee shall comply with the provisions of the submitted plan. Each plan must contain the following information:~~

- ~~(a) Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device.~~
- ~~(b) A monitoring schedule for the two (2) electric induction furnaces.~~
- ~~(c) Procedures for the proper operation and maintenance of the two (2) electric induction furnaces and each add-on control device (two (2) baghouses) used to meet the applicable emission limits or standards in Condition D.1.2.~~
- ~~(d) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including: calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions.~~
- ~~(e) Procedures for monitoring process and control device parameters, including the procedure to be used for determining feed/charge (or throughput) weight if a measurement device is not used.~~
- ~~(f) Corrective actions to be taken when process or operating parameters or add-on control device (two (2) baghouses) parameters deviate from the value or range established in Condition D.1.5(a), including:
  - ~~(1) Procedures to determine and record the cause of a deviation or excursion, and the time the deviation or excursion began and ended; and~~
  - ~~(2) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.~~~~
- ~~(g) A maintenance schedule for the two (2) electric induction furnaces (each process) and control device (two (2) baghouses) that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.~~

~~D.1.61 Particulate [326 IAC 6-3-2]~~

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~~D.1.8 Feed/Charge Weight Determination [40 CFR Part 63.1506(d)]~~

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- ~~(a) The Permittee shall install and operate a device that measures and records or otherwise determine the weight of feed/charge (or throughput) for each operating cycle or time period used in the performance test; and operate each weight measurement system or other weight determination procedure in accordance with Condition D.1.5.~~
- ~~(b) Alternatively, the Permittee may choose to measure and record aluminum production weight from each furnace rather than feed/charge weight to each furnace, provided that:
  - ~~(1) The aluminum production weight, rather than feed/charge weight is measured and recorded for the two (2) electric induction furnaces EU1 and EU2; and~~
  - ~~(2) All calculations to demonstrate compliance with the emission limits for each electric induction furnace are based on aluminum production weight rather than feed/charge weight.~~~~

~~D.1.9 Site Specific Requirements for Secondary Aluminum Processing Unit [40 CFR Part 63.1510(c)]~~

~~The Permittee shall include within the OMM plan the following information:~~

- ~~(a) The identification of each emission unit in the secondary aluminum processing unit;~~
- ~~(b) The specific control technology of pollution prevention measure to be used for each emission unit in the secondary aluminum processing unit and the date of its installation or application;~~
- ~~(c) The emission limit calculated for each secondary aluminum processing unit and performance test result with supporting calculations demonstrating initial compliance with each applicable emission limit;~~
- ~~(d) Information and data demonstrating compliance for each emission unit with all applicable design equipment work practice or operational standards of Subpart RRR; and~~
- ~~(e) The monitoring requirements applicable to each furnace in a secondary aluminum processing unit and the monitoring procedures for daily calculation of the 3-day, 24-hour rolling average using methods listed in Condition D.1.14.~~
- ~~(f) The SAPU compliance procedures within the OMM plan (Condition D.1.5) may not contain any of the following:
  - ~~(1) Any averaging among emissions of differing pollutants;~~
  - ~~(2) The inclusion of any affected sources other than emission units in a secondary aluminum processing unit;~~
  - ~~(3) The inclusion of any emission unit while it is shutdown; or~~
  - ~~(4) The inclusion of any periods of startup, shutdown, or malfunction in emission calculations.~~~~

~~The completion of the initial performance tests for the secondary aluminum processing units shall be considered to be the date of approval of the Operation, Maintenance and Monitoring Plan by IDEM, OAQ [63.1506(a)(2)].~~

~~D.1.10 Labeling [40 CFR 63.1510(c)]~~

~~To document compliance with Condition D.1.3, the Permittee shall inspect the labels for the two (2) electric induction furnaces (EU1 and EU2) at least once per calendar month to confirm that the posted labels are intact and legible.~~

~~D.1.11 Capture/Collection System [63.1510(d)]~~

~~The Permittee shall inspect each capture/collection and closed vent system associated with the two (2) electric induction furnaces at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in Conditions D.1.4 and D.1.7 and record the results of each inspection.~~

~~D.1.12 Feed/Charge [40 CFR 63.1510(e)]~~

- ~~(a) The Permittee shall install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, each of the two (2) electric induction furnaces over the same operating cycle or time period used in the performance test. Feed/charge or aluminum production within SAPUs must be measured and recorded on an emission unit-by-emission unit basis~~
- ~~(b) As an alternative to a measurement device, the Permittee may use a procedure acceptable to IDEM, OAQ to determine the total weight of feed/charge or aluminum production to the two (2) electric induction furnaces.~~

- (c) ~~The accuracy of the weight measurement device or procedure must be  $\pm 1$  percent of the weight being measured.~~
- (d) ~~The Permittee may apply to IDEM, OAQ to use a device of alternative accuracy if the required accuracy cannot be achieved as a result of equipment layout or charging practices. A device of alternative accuracy will not be approved unless the Permittee provides assurance through data and information that the rotary scrap dryer will meet the relevant emission standard given in Condition D.1.2.~~

D.1.13 Corrective Action [40 CFR 63.1506(p)]

~~When a process parameter or the baghouse operating parameter deviates from the value or range established during the performance test and incorporated in Condition D.1.5, the Permittee shall initiate corrective action. Corrective action must restore operation of the affected source or emission unit (including the process or control device) to its normal or usual mode of operation as expeditiously as practicable in accordance with good air pollution practices for minimizing emissions. Corrective actions taken must include follow-up actions necessary to return the process or control device parameter level(s) to the value or range of values established during the performance test and steps to prevent the likely recurrence of the cause of a deviation.~~

D.1.14 Secondary Aluminum Processing Unit [40 CFR 63.1510(t)] [40 CFR 63.1510(u)]

- (a) ~~The Permittee shall use the results of the most recent compliance testing results and calculate and record the 3-day, 24-hour rolling average emissions of D/F for each furnace on a daily basis as follows:~~
  - (1) ~~Calculate and record the total weight of material charged to each furnace for each 24-hour day of operation using the feed/charge weight data collected as required under Subpart RRR.~~
  - (2) ~~To provide emissions for each furnace for the 24-hour period, in pounds: multiply the total feed/charge weight to the furnace or the weight of aluminum produced by the furnace for the 24-hour period, by the emission rate (in lb/ton of feed/charge) for that furnace (as determined during the emission test).~~
  - (3) ~~Divide the total emissions for each furnace for the 24-hour period by the total material charged to the furnace;~~
  - (4) ~~Compute the 24-hour daily emission rate using the equation given below:~~

$$E_{\text{day}} = \frac{\sum_{i=1}^n (T_i \times ER_i)}{\sum_{i=1}^n T_i}$$

where:

- $E_{\text{day}}$  = The daily D/F emission rate for each furnace for the 24-hour period;
- $T_i$  = The total amount of feed for emission unit  $i$  for the 24-hour period (tons);
- $ER_i$  = The measured emission rate for emission unit  $i$  as determined in the performance test (lb/ton or  $\mu\text{g}/\text{Mg}$  of feed/charge); and
- $n$  = The number of furnaces in the secondary aluminum processing unit.

- (5) ~~Calculate and record the 3-day, 24-hour rolling average for each pollutant each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3.~~
- (b) ~~As an alternative to the procedures in paragraph (a) of this Section, the Permittee may demonstrate through performance tests, that each individual furnace is in compliance with Condition D.1.2.~~

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

#### **~~D.1.18 Secondary Aluminum Production Record Keeping Requirements [40 CFR Part 63.1517]~~**

- (a) ~~Pursuant to 40 CFR 63.10(b), the Permittee shall maintain files of all information (including all reports and notifications) required by the general provisions and Subpart RRR as follows:~~
- (1) ~~The Permittee shall retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site.~~
- (2) ~~The Permittee may retain records on microfilm, computer disks, magnetic tape, or microfiche; and report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.~~
- (3) ~~In addition to the general records required by 40 CFR 63.10(b), the Permittee must maintain records of:~~
- (A) ~~The number of total operating hours for the affected source or emission unit during each 6-month reporting period, records of each alarm, the time of the alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action(s) taken.~~
- (B) ~~For the group 1 furnace (electric induction furnaces EU1 and EU2): Records of 15-minute block average weights of gaseous or liquid reactive flux injection, total reactive flux injection rate and calculations (including records of the identity, composition, and weight of each addition of gaseous, liquid or solid reactive flux), including records of any period the rate exceeds the compliant operating parameter value and corrective action taken.~~
- (5) ~~Feed/charge (or throughput) weights for each operating cycle or time period used in the performance test.~~
- (6) ~~Monthly inspections for proper unit labeling for the two (2) electric induction furnaces subject to labeling requirements.~~
- (7) ~~Annual inspections of emission capture/collection and closed vent systems.~~
- (8) ~~Any approved alternative monitoring or test procedure.~~
- (9) ~~Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:~~
- (A) ~~Startup, Shutdown, and Malfunction Plan; and~~
- (B) ~~Site-specific secondary aluminum processing unit emission plan.~~

~~(10) For each furnace, records of total charge weight for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.~~

~~D.1.20 Secondary Aluminum Production Reporting Requirements [40 CFR Part 63.1515] [40 CFR 63.1516]~~

- ~~(a) Pursuant to 40 CFR 63.1515(a) and as required by 40 CFR 63.9 (b)(1), the Permittee shall submit initial notifications to IDEM, OAQ for an area source that subsequently increases its emissions such that source is a major source subject to the standard.~~
- ~~(b) Pursuant to 40 CFR 63.1515(a) and as required by 40 CFR 63.9 (e) and (f), the Permittee shall provide notification of the anticipated date for conducting the performance tests and visible emission observations. The Permittee shall notify the Commissioner of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.~~
- ~~(c) Pursuant to 40 CFR 63.1515(b), the Permittee shall submit a notification of compliance status report within 60 days after the issuance of this permit (compliance dates specified in 40 CFR 63.1501). The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the information specified in paragraphs (c)(1) through (6) of this section. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. In a State with an approved operating permit program where delegation of authority under section 112(l) of the CAA has not been requested or approved, the owner or operator must provide duplicate notification to the applicable Regional Administrator. If the Permittee submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include:~~
- ~~(1) All information required in 40 CFR 63.9(h). The Permittee shall provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests).~~
  - ~~(2) Unit labeling as described in Condition D.1.3 and operating requirements.~~
  - ~~(3) The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value (e.g., lime injection rate, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.~~
  - ~~(4) Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for capture/collection systems in Condition D.1.4~~
  - ~~(5) Approved OMM plan as given in Condition D.1.5.~~
  - ~~(6) Startup, Shutdown, and Malfunction Plan, with revisions.~~
- ~~(d) Pursuant to 40 CFR 63.1516(d), the Permittee shall develop and implement a written plan that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The Permittee shall also keep records of each event as required by 40~~

~~CFR 63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in 40 CFR 63.6(e)(3). In addition to the information required in 40 CFR 63.6(e)(3), the plan must include:~~

- ~~(1) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and~~
  - ~~(2) Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions.~~
- ~~(e) Pursuant to 40 CFR 63.1516(b), the Permittee shall submit semiannual reports within 60 days after the end of each 6-month period. Each report must contain the information specified in 40 CFR 63.10(c). When no deviations of parameters have occurred, the Permittee must submit a report stating that no excess emissions occurred during the reporting period.~~
- ~~(1) A report must be submitted if any of these conditions occur during a 6-month reporting period:
    - ~~(A) An excursion of a compliant process or operating parameter value or range (e.g., lime injection rate or screw feeder setting, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature, definition of acceptable scrap, or other approved operating parameter).~~
    - ~~(B) An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan as described in 40 CFR 63.6(e)(3).~~
    - ~~(C) An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of Subpart RRR.~~
    - ~~(D) A deviation from the 3-day, 24-hour rolling average emission limit for a secondary aluminum processing unit.~~~~
  - ~~(2) The Permittee shall submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.~~
- ~~(f) Pursuant to 40 CFR 63.1516(c), for the purpose of annual certifications of compliance, the Permittee shall certify continuing compliance based upon, but not limited to, the following conditions:~~
- ~~(1) Any period of excess emissions that occurred during the year were reported as required by 40 CFR 63, Subpart RRR; and~~
  - ~~(2) All monitoring, recordkeeping, and reporting requirements were met during the year.~~

## **National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-6.1-5(a)(1)]**

### **D.1.7 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR Part 63, Subpart A]**

**Pursuant to 40 CFR 63.1518, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1**

for the two (2) electric induction furnaces (identified as EU1 and EU2) as specified in Appendix A of 40 CFR Part 63, Subpart RRR in accordance with schedule in 40 CFR 63 Subpart RRR.

**D.1.8 NESHAP for Secondary Aluminum Production: Requirements [40 CFR Part 63, Subpart RRR**

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Pursuant to CFR Part 63, Subpart RRR, the Permittee shall comply with the provisions of 40 CFR Part 63.1505(i) and 40 CFR 63.1505(k) for the two (2) electric induction furnaces (identified as EU1 and EU2) as specified in the following paragraphs.

**Subpart RRR—National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production**

Source: 65 FR 15710, Mar. 23, 2000, unless otherwise noted.

**General**

**§ 63.1500 Applicability.**

(a) The requirements of this subpart apply to the owner or operator of each secondary aluminum production facility as defined in §63.1503.

(c) The requirements of this subpart pertaining to dioxin and furan (D/F) emissions and associated operating, monitoring, reporting and recordkeeping requirements apply to the following affected sources, located at a secondary aluminum production facility that is an area source of HAPs as defined in §63.2:

(4) Each new and existing secondary aluminum processing unit, containing one or more group 1 furnace emission units processing other than clean charge.

(e) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79814, Dec. 30, 2002; 70 FR 75346, Dec. 19, 2005]

**§ 63.1501 Dates.**

(a) The owner or operator of an existing affected source must comply with the requirements of this subpart by March 24, 2003.

**§ 63.1502 Incorporation by reference.**

(a) The following material is incorporated by reference in the corresponding sections noted. The incorporation by reference (IBR) of certain publications listed in the rule will be approved by the Director of the Office of the Federal Register as of the date of publication of the final rule in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. This material is incorporated as it exists on the date of approval:

(1) Chapters 3 and 5 of "Industrial Ventilation: A Manual of Recommended Practice," American Conference of Governmental Industrial Hygienists, (23rd edition, 1998), IBR approved for §63.1506(c), and

(2) "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update" (EPA/625/3-89/016).

(b) The material incorporated by reference is available for inspection at the National Archives and Records Administration (NARA); and at the Air and Radiation Docket and Information Center, U.S. EPA, 1200 Pennsylvania Ave., NW., Washington, DC. For information on the availability of this material at NARA, call 202-741-6030, or go to:

[http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html). The material is also available for purchase from the following addresses:

(1) Customer Service Department, American Conference of Governmental Industrial Hygienists (ACGIH), 1330 Kemper Meadow Drive, Cincinnati, OH 45240-1634, telephone number (513) 742-2020; and

(2) The National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA, NTIS no. PB 90-145756.

#### § 63.1503 Definitions.

Terms used in this subpart are defined in the Clean Air Act as amended (CAA), in §63.2, or in this section as follows:

**Add-on air pollution control device** means equipment installed on a process vent that reduces the quantity of a pollutant that is emitted to the air.

**Afterburner** means an air pollution control device that uses controlled flame combustion to convert combustible materials to noncombustible gases; also known as an incinerator or a thermal oxidizer.

**Aluminum scrap** means fragments of aluminum stock removed during manufacturing ( *i.e.*, machining), manufactured aluminum articles or parts rejected or discarded and useful only as material for reprocessing, and waste and discarded material made of aluminum.

**Aluminum scrap shredder** means a unit that crushes, grinds, or breaks aluminum scrap into a more uniform size prior to processing or charging to a *scrap dryer/delacquering kiln/decoating kiln*, or furnace. A bale breaker is not an *aluminum scrap shredder*.

**Bag leak detection system** means an instrument that is capable of monitoring particulate matter loadings in the exhaust of a fabric filter ( *i.e.*, baghouse) in order to detect bag failures. A *bag leak detection system* includes, but is not limited to, an instrument that operates on triboelectric, light scattering, light transmittance, or other effect to monitor relative particulate matter loadings.

**Chips** means small, uniformly-sized, unpainted pieces of aluminum scrap, typically below 11/4inches in any dimension, primarily generated by turning, milling, boring, and machining of aluminum parts.

**Clean charge** means furnace charge materials, including molten aluminum; T-bar; sow; ingot; billet; pig; alloying elements; aluminum scrap known by the owner or operator 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 343 °C (650 °F) or higher; aluminum scrap delacquered/decoated at 482 °C (900 °F) or higher, and runaround scrap.

**Cover flux** means salt added to the surface of molten aluminum in a *group 1* or *group 2 furnace*, without agitation of the molten aluminum, for the purpose of preventing oxidation.

**Customer returns** means any aluminum product which is returned by a customer to the aluminum company that originally manufactured the product prior to resale of the product or further distribution in commerce, and which contains no paint or other solid coatings ( *i.e.*, lacquers).

**D/F** means dioxins and furans.

**Dioxins and furans** means tetra-, penta-, hexa-, and octachlorinated dibenzo dioxins and furans.

**Dross** means the slags and skimmings from aluminum melting and refining operations consisting of fluxing agent(s), impurities, and/or oxidized and non-oxidized aluminum, from scrap aluminum charged into the furnace.

**Dross-only furnace** means a furnace, typically of rotary barrel design, dedicated to the reclamation of aluminum from dross formed during melting, holding, fluxing, or alloying operations carried out in other process units. Dross and salt flux are the sole feedstocks to this type of furnace.

**Emission unit** means a *group 1 furnace* or *in-line fluxer* at a *secondary aluminum production facility*.

**Fabric filter** means an add-on air pollution control device used to capture particulate matter by filtering gas streams through filter media; also known as a baghouse.

**Feed/charge** means, for a furnace or other process unit that operates in batch mode, the total weight of material (including molten aluminum, T-bar, sow, ingot, etc.) and alloying agents that enter the furnace during an operating cycle. For a furnace or other process unit that operates continuously, *feed/charge* means the weight of material (including molten aluminum, T-bar, sow, ingot, etc.) and alloying agents that enter the process unit within a specified time period ( e.g., a time period equal to the performance test period). The *feed/charge* for a dross only furnace includes the total weight of dross and solid flux.

**Fluxing** means refining of molten aluminum to improve product quality, achieve product specifications, or reduce material loss, including the addition of solvents to remove impurities (solvent flux); and the injection of gases such as chlorine, or chlorine mixtures, to remove magnesium (demagging) or hydrogen bubbles (degassing). *Fluxing* may be performed in the furnace or outside the furnace by an *in-line fluxer*.

**Furnace hearth** means the combustion zone of a furnace in which the molten metal is contained.

**Group 1 furnace** means a furnace of any design that melts, holds, or processes aluminum that contains paint, lubricants, coatings, or other foreign materials with or without *reactive fluxing*, or processes *clean charge* with *reactive fluxing*.

**Group 2 furnace** means a furnace of any design that melts, holds, or processes only *clean charge* and that performs no *fluxing* or performs *fluxing* using only nonreactive, non-HAP-containing/non-HAP-generating gases or agents.

**HCl** means, for the purposes of this subpart, emissions of hydrogen chloride that serve as a surrogate measure of the total emissions of the HAPs hydrogen chloride, hydrogen fluoride and chlorine.

**In-line fluxer** means a device exterior to a furnace, located in a transfer line from a furnace, used to refine (flux) molten aluminum; also known as a flux box, degassing box, or demagging box.

**Internal scrap** means all aluminum scrap regardless of the level of contamination which originates from castings or extrusions produced by an aluminum die casting facility, aluminum foundry, or aluminum extrusion facility, and which remains at all times within the control of the company that produced the castings or extrusions.

**Lime** means calcium oxide or other alkaline reagent.

**Lime-injection** means the continuous addition of lime upstream of a *fabric filter*.

**Melting/holding furnace** means a *group 1 furnace* that processes only *clean charge*, performs melting, holding, and fluxing functions, and does not transfer molten aluminum to or from another furnace except for purposes of alloy changes, off-specification product drains, or maintenance activities.

**Operating cycle** means for a batch process, the period beginning when the feed material is first charged to the operation and ending when all feed material charged to the operation has been processed. For a batch melting or holding furnace process, *operating cycle* means the period including the charging and melting of scrap aluminum and the fluxing, refining, alloying, and tapping of molten aluminum (the period from tap-to-tap).

**PM** means, for the purposes of this subpart, emissions of particulate matter that serve as a measure of total particulate emissions and as a surrogate for metal HAPs contained in the particulates, including but not limited to, antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, mercury, nickel, and selenium.

**Pollution prevention** means source reduction as defined under the Pollution Prevention Act of 1990 ( e.g., equipment or technology modifications, process or procedure modifications,

reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control), and other practices that reduce or eliminate the creation of pollutants through increased efficiency in the use of raw materials, energy, water, or other resources, or protection of natural resources by conservation.

**Reactive fluxing** means the use of any gas, liquid, or solid flux (other than cover flux) that results in a HAP emission. Argon and nitrogen are not reactive and do not produce HAP.

**Reconstruction** means the replacement of components of an affected source or *emission unit* such that the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable new affected source, and it is technologically and economically feasible for the reconstructed source to meet relevant standard(s) established in this subpart. Replacement of the refractory in a furnace is routine maintenance and is not a *reconstruction*. The repair and replacement of *in-line fluxer* components ( e.g., rotors/shafts, burner tubes, refractory, warped steel) is considered to be routine maintenance and is not considered a *reconstruction*. *In-line fluxers* are typically removed to a maintenance/repair area and are replaced with repaired units. The replacement of an existing *in-line fluxer* with a repaired unit is not considered a *reconstruction*.

**Residence time** means, for an *afterburner*, the duration of time required for gases to pass through the *afterburner* combustion zone. *Residence time* is calculated by dividing the *afterburner* combustion zone volume in cubic feet by the volumetric flow rate of the gas stream in actual cubic feet per second.

**Rotary dross cooler** means a water-cooled rotary barrel device that accelerates cooling of dross.

**Runaround scrap** means scrap materials generated on-site by aluminum casting, extruding, rolling, scalping, forging, forming/stamping, cutting, and trimming operations and that do not contain paint or solid coatings. Uncoated/unpainted aluminum chips generated by turning, boring, milling, and similar machining operations may be clean charge if they have been thermally dried or treated by a centrifugal cleaner, but are not considered to be *runaround scrap*.

**Scrap dryer/delacquering kiln/decoating kiln** means a unit used primarily to remove various organic contaminants such as oil, paint, lacquer, ink, plastic, and/or rubber from *aluminum scrap* (including used beverage containers) prior to melting.

**Secondary aluminum processing unit (SAPU).** An existing SAPU means all existing *group 1 furnaces* and all existing *in-line fluxers* within a *secondary aluminum production facility*. Each existing *group 1 furnace* or existing *in-line fluxer* is considered an *emission unit* within a *secondary aluminum processing unit*. A new SAPU means any combination of individual *group 1 furnaces* and *in-line fluxers* within a *secondary aluminum processing facility* which either were constructed or reconstructed after February 11, 1999, or have been permanently redesignated as new emission units pursuant to §63.1505(k)(6). Each of the *group 1 furnaces* or *in-line fluxers* within a new SAPU is considered an *emission unit* within that *secondary aluminum processing unit*.

**Secondary aluminum production facility** means any establishment using *clean charge*, *aluminum scrap*, or dross from aluminum production, as the raw material and performing one or more of the following processes: scrap shredding, scrap drying/delacquering/decoating, thermal chip drying, furnace operations ( i.e., melting, holding, sweating, refining, fluxing, or alloying), recovery of aluminum from dross, in-line fluxing, or dross cooling. A *secondary aluminum production facility* may be independent or part of a primary aluminum production facility. For purposes of this subpart, aluminum die casting facilities, aluminum foundries, and aluminum extrusion facilities are not considered to be secondary aluminum production facilities if the only materials they melt are *clean charge*, customer returns, or internal scrap, and if they do not operate sweat furnaces, thermal chip dryers, or scrap dryers/delacquering kilns/decoating kilns. The determination of whether a facility is a *secondary aluminum production facility* is only for purposes of this subpart and any regulatory requirements which are derived from the applicability of this subpart, and is separate from any determination which may be made under other environmental laws and regulations, including whether the same facility is a “secondary metal production facility” as that term is used in 42 U.S.C. §7479(1) and 40 CFR 52.21(b)(1)(i)(A) (“prevention of significant deterioration of air quality”).

**Sidewell** means an open well adjacent to the hearth of a furnace with connecting arches between the hearth and the open well through which molten aluminum is circulated between the hearth, where heat is applied by burners, and the open well, which is used for charging scrap and solid flux or salt to the furnace, injecting fluxing agents, and skimming dross.

**Sweat furnace** means a furnace used exclusively to reclaim aluminum from scrap that contains substantial quantities of iron by using heat to separate the low-melting point aluminum from the scrap while the higher melting-point iron remains in solid form.

**TEQ** means the international method of expressing toxicity equivalents for dioxins and furans as defined in "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update" (EPA-625/3-89-016), available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161, NTIS no. PB 90-145756.

**THC** means, for the purposes of this subpart, total hydrocarbon emissions that also serve as a surrogate for the emissions of organic HAP compounds.

**Thermal chip dryer** means a device that uses heat to evaporate oil or oil/water mixtures from unpainted/uncoated aluminum chips. Pre-heating boxes or other dryers which are used solely to remove water from aluminum scrap are not considered to be thermal chip dryers for purposes of this subpart.

**Three-day, 24-hour rolling average** means daily calculations of the average 24-hour emission rate (lbs/ton of feed/charge), over the 3 most recent consecutive 24-hour periods, for a *secondary aluminum processing unit*.

**Total reactive chlorine flux injection rate** means the sum of the total weight of chlorine in the gaseous or liquid reactive flux and the total weight of chlorine in the solid reactive chloride flux, divided by the total weight of feed/charge, as determined by the procedure in §63.1512(o).

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79814, Dec. 30, 2002; 69 FR 18803, Apr. 9, 2004; 69 FR 53984, Sept. 3, 2004; 70 FR 57517, Oct. 3, 2005]

## Emission Standards and Operating Requirements

### § 63.1505 Emission standards for affected sources and emission units.

(a) **Summary.** The owner or operator of a new or existing affected source must comply with each applicable limit in this section. Table 1 to this subpart summarizes the emission standards for each type of source.

(i) **Group 1 furnace.** The owner or operator of a group 1 furnace must use the limits in this paragraph to determine the emission standards for a SAPU.

(3) 15 µg of D/F TEQ per Mg ( $2.1 \times 10^{-4}$  gr of D/F TEQ per ton) of feed/charge from a group 1 furnace at a secondary aluminum production facility that is a major or area source. This limit does not apply if the furnace processes only clean charge; and

(6) The owner or operator may determine the emission standards for a SAPU by applying the group 1 furnace limits on the basis of the aluminum production weight in each group 1 furnace, rather than on the basis of feed/charge.

(k) **Secondary aluminum processing unit.** On and after the compliance date established by §63.1501, the owner or operator must comply with the emission limits calculated using the equations for PM and HCl in paragraphs (k)(1) and (2) of this section for each secondary aluminum processing unit at a secondary aluminum production facility that is a major source. The owner or operator must comply with the emission limit calculated using the equation for D/F in paragraph (k)(3) of this section for each secondary aluminum processing unit at a secondary aluminum production facility that is a major or area source.

(3) The owner or operator must not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of D/F in excess of:

$$L_{C_{D/F}} = \frac{\sum_{i=1}^n (L_{tiD/F} \times T_{ti})}{\sum_{i=1}^n (T_{ti})} \quad (\text{Eq. 3})$$

Where,

$L_{tiD/F}$  = The D/F emission limit for individual emission unit  $i$  in paragraph (i)(3) of this section for a group 1 furnace; and

$L_{C_{D/F}}$  = The D/F emission limit for the secondary aluminum processing unit.

**Note:** Clean charge furnaces cannot be included in this calculation since they are not subject to the D/F limit.

(5) The owner or operator of a SAPU at a secondary aluminum production facility that is an area source may demonstrate compliance with the emission limits of paragraph (k)(3) of this section by demonstrating that each emission unit within the SAPU is in compliance with the emission limit of paragraph (i)(3) of this section.

(6) With the prior approval of the responsible permitting authority, an owner or operator may redesignate any existing group 1 furnace or in-line fluxer at a secondary aluminum production facility as a new emission unit. Any emission unit so redesignated may thereafter be included in a new SAPU at that facility. Any such redesignation will be solely for the purpose of this MACT standard and will be irreversible.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 59792, Sept. 24, 2002; 67 FR 79816, Dec. 30, 2002; 70 FR 57517, Oct. 3, 2005]

#### § 63.1506 Operating requirements.

(a) **Summary.** (1) On and after the compliance date established by §63.1501, the owner or operator must operate all new and existing affected sources and control equipment according to the requirements in this section.

(4) Operating requirements are summarized in Table 2 to this subpart.

(b) **Labeling.** The owner or operator must provide and maintain easily visible labels posted at each group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln/decoating kiln that identifies the applicable emission limits and means of compliance, including:

(1) The type of affected source or emission unit ( e.g., scrap dryer/delacquering kiln/decoating kiln, group 1 furnace, group 2 furnace, in-line fluxer).

(2) The applicable operational standard(s) and control method(s) (work practice or control device). This includes, but is not limited to, the type of charge to be used for a furnace ( e.g ., clean scrap only, all scrap, etc.), flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in the OM&M plan.

(d) **Feed/charge weight.** The owner or operator of each affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) or  $\mu\text{g}/\text{Mg}$  (gr/ton) of feed/charge must:

(1) Except as provided in paragraph (d)(3) of this section, install and operate a device that measures and records or otherwise determine the weight of feed/charge (or throughput) for each operating cycle or time period used in the performance test; and

(2) Operate each weight measurement system or other weight determination procedure in accordance with the OM&M plan.

(3) The owner or operator may chose to measure and record aluminum production weight from an affected source or emission unit rather than feed/charge weight to an affected source or emission unit, provided that:

(i) The aluminum production weight, rather than feed/charge weight is measured and recorded for all emission units within a SAPU; and

(ii) All calculations to demonstrate compliance with the emission limits for SAPUs are based on aluminum production weight rather than feed/charge weight.

(p) **Corrective action.** When a process parameter or add-on air pollution control device operating parameter deviates from the value or range established during the performance test and incorporated in the OM&M plan, the owner or operator must initiate corrective action. Corrective action must restore operation of the affected source or emission unit (including the process or control device) to its normal or usual mode of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. Corrective actions taken must include follow-up actions necessary to return the process or control device parameter level(s) to the value or range of values established during the performance test and steps to prevent the likely recurrence of the cause of a deviation.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 59792, Sept. 24, 2002; 67 FR 79816, Dec. 30, 2002; 69 FR 53984, Sept. 3, 2004]

### Monitoring and Compliance Requirements

#### § 63.1510 Monitoring requirements.

(a) **Summary.** On and after the compliance date established by §63.1501, the owner or operator of a new or existing affected source or emission unit must monitor all control equipment and processes according to the requirements in this section. Monitoring requirements for each type of affected source and emission unit are summarized in Table 3 to this subpart.

(b) **Operation, maintenance, and monitoring (OM&M) plan.** The owner or operator must prepare and implement for each new or existing affected source and emission unit, a written operation, maintenance, and monitoring (OM&M) plan. The owner or operator of an existing affected source must submit the OM&M plan to the responsible permitting authority no later than the compliance date established by §63.1501(a). The owner or operator of any new affected source must submit the OM&M plan to the responsible permitting authority within 90 days after a successful initial performance test under §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The plan must be accompanied by a written certification by the owner or operator that the OM&M plan satisfies all requirements of this section and is otherwise consistent with the requirements of this subpart. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority, unless and until the plan is revised in accordance with the following procedures. If the permitting authority determines at any time after receipt of the OM&M plan that any revisions of the plan are necessary to satisfy the requirements of this section or this subpart, the owner or operator must promptly make all necessary revisions and resubmit the revised plan. If the owner or operator determines that any other revisions of the OM&M plan are necessary, such revisions will not become effective until the owner or operator submits a description of the changes and a revised plan incorporating them to the permitting authority. Each plan must contain the following information:

(1) Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device.

(2) A monitoring schedule for each affected source and emission unit.

(3) Procedures for the proper operation and maintenance of each process unit and add-on control device used to meet the applicable emission limits or standards in §63.1505.

(4) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:

(i) Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and

**(ii) Procedures for the quality control and quality assurance of continuous emission or opacity monitoring systems as required by the general provisions in subpart A of this part.**

**(5) Procedures for monitoring process and control device parameters, including procedures for annual inspections of afterburners, and if applicable, the procedure to be used for determining charge/feed (or throughput) weight if a measurement device is not used.**

**(6) Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in paragraph (b)(1) of this section, including:**

**(i) Procedures to determine and record the cause of any deviation or excursion, and the time the deviation or excursion began and ended; and**

**(ii) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.**

**(7) A maintenance schedule for each process and control device that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.**

**(c) *Labeling.* The owner or operator must inspect the labels for each group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln/decoating kiln at least once per calendar month to confirm that posted labels as required by the operational standard in §63.1506(b) are intact and legible.**

**(e) *Feed/charge weight.* The owner or operator of an affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) or µg/Mg (gr/ton) of feed/charge must install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, the affected source or emission unit over the same operating cycle or time period used in the performance test. Feed/charge or aluminum production within SAPUs must be measured and recorded on an emission unit-by-emission unit basis. As an alternative to a measurement device, the owner or operator may use a procedure acceptable to the applicable permitting authority to determine the total weight of feed/charge or aluminum production to the affected source or emission unit.**

**(1) The accuracy of the weight measurement device or procedure must be ±1 percent of the weight being measured. The owner or operator may apply to the permitting agency for approval to use a device of alternative accuracy if the required accuracy cannot be achieved as a result of equipment layout or charging practices. A device of alternative accuracy will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standard.**

**(2) The owner or operator must verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.**

**(s) *Site-specific requirements for secondary aluminum processing units.* (1) An owner or operator of a secondary aluminum processing unit at a facility must include, within the OM&M plan prepared in accordance with §63.1510(b), the following information:**

**(i) The identification of each emission unit in the secondary aluminum processing unit;**

**(ii) The specific control technology or pollution prevention measure to be used for each emission unit in the secondary aluminum processing unit and the date of its installation or application;**

**(iii) The emission limit calculated for each secondary aluminum processing unit and performance test results with supporting calculations demonstrating initial compliance with each applicable emission limit;**

**(iv) Information and data demonstrating compliance for each emission unit with all applicable design, equipment, work practice or operational standards of this subpart; and**

(v) The monitoring requirements applicable to each emission unit in a secondary aluminum processing unit and the monitoring procedures for daily calculation of the 3-day, 24-hour rolling average using the procedure in §63.1510(t).

(2) The SAPU compliance procedures within the OM&M plan may not contain any of the following provisions:

(i) Any averaging among emissions of differing pollutants;

(ii) The inclusion of any affected sources other than emission units in a secondary aluminum processing unit;

(iii) The inclusion of any emission unit while it is shutdown; or

(iv) The inclusion of any periods of startup, shutdown, or malfunction in emission calculations.

(3) To revise the SAPU compliance provisions within the OM&M plan prior to the end of the permit term, the owner or operator must submit a request to the applicable permitting authority containing the information required by paragraph (s)(1) of this section and obtain approval of the applicable permitting authority prior to implementing any revisions.

(t) *Secondary aluminum processing unit.* Except as provided in paragraph (u) of this section, the owner or operator must calculate and record the 3-day, 24-hour rolling average emissions of PM, HCl, and D/F for each secondary aluminum processing unit on a daily basis. To calculate the 3-day, 24-hour rolling average, the owner or operator must:

(1) Calculate and record the total weight of material charged to each emission unit in the secondary aluminum processing unit for each 24-hour day of operation using the feed/charge weight information required in paragraph (e) of this section. If the owner or operator chooses to comply on the basis of weight of aluminum produced by the emission unit, rather than weight of material charged to the emission unit, all performance test emissions results and all calculations must be conducted on the aluminum production weight basis.

(2) Multiply the total feed/charge weight to the emission unit, or the weight of aluminum produced by the emission unit, for each emission unit for the 24-hour period by the emission rate (in lb/ton of feed/charge) for that emission unit (as determined during the performance test) to provide emissions for each emission unit for the 24-hour period, in pounds.

(3) Divide the total emissions for each SAPU for the 24-hour period by the total material charged to the SAPU, or the weight of aluminum produced by the SAPU over the 24-hour period to provide the daily emission rate for the SAPU.

(4) Compute the 24-hour daily emission rate using Equation 4:

$$E_{\text{day}} = \frac{\sum_{i=1}^n (T_i \times ER_i)}{\sum_{i=1}^n T_i} \quad (\text{Eq. 4})$$

Where,

$E_{\text{day}}$  = The daily PM, HCl, or D/F emission rate for the secondary aluminum processing unit for the 24-hour period;

$T_i$  = The total amount of feed, or aluminum produced, for emission unit  $i$  for the 24-hour period (tons or Mg);

$ER_i$  = The measured emission rate for emission unit  $i$  as determined in the performance test (lb/ton or  $\mu\text{g}/\text{Mg}$  of feed/charge); and

$n$  = The number of emission units in the secondary aluminum processing unit.

**(5) Calculate and record the 3-day, 24-hour rolling average for each pollutant each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3.**

**(u) *Secondary aluminum processing unit compliance by individual emission unit demonstration.*** As an alternative to the procedures of paragraph (t) of this section, an owner or operator may demonstrate, through performance tests, that each individual emission unit within the secondary aluminum production unit is in compliance with the applicable emission limits for the emission unit.

**§ 63.1511 Performance test/compliance demonstration general requirements.**

**(a) *Site-specific test plan.*** Prior to conducting any performance test required by this subpart, the owner or operator must prepare a site-specific test plan which satisfies all of the requirements, and must obtain approval of the plan pursuant to the procedures, set forth in §63.7(c).

**(b) *Initial performance test.*** Following approval of the site-specific test plan, the owner or operator must demonstrate initial compliance with each applicable emission, equipment, work practice, or operational standard for each affected source and emission unit, and report the results in the notification of compliance status report as described in §63.1515(b). The owner or operator of any existing affected source for which an initial performance test is required to demonstrate compliance must conduct this initial performance test no later than the date for compliance established by §63.1501(a). The owner or operator of any new affected source for which an initial performance test is required must conduct this initial performance test within 90 days after the date for compliance established by §63.1501(b). Except for the date by which the performance test must be conducted, the owner or operator must conduct each performance test in accordance with the requirements and procedures set forth in §63.7(c). Owners or operators of affected sources located at facilities which are area sources are subject only to those performance testing requirements pertaining to D/F. Owners or operators of sweat furnaces meeting the specifications of §63.1505(f)(1) are not required to conduct a performance test.

**(1)** The owner or operator must conduct each test while the affected source or emission unit is operating at the highest production level with charge materials representative of the range of materials processed by the unit and, if applicable, at the highest reactive fluxing rate.

**(2)** Each performance test for a continuous process must consist of 3 separate runs; pollutant sampling for each run must be conducted for the time period specified in the applicable method or, in the absence of a specific time period in the test method, for a minimum of 3 hours.

**(3)** Each performance test for a batch process must consist of three separate runs; pollutant sampling for each run must be conducted over the entire process operating cycle.

**(5)** Initial compliance with an applicable emission limit or standard is demonstrated if the average of three runs conducted during the performance test is less than or equal to the applicable emission limit or standard.

**(c) *Test methods.*** The owner or operator must use the following methods in appendix A to 40 CFR part 60 to determine compliance with the applicable emission limits or standards:

**(7)** Method 23 for the concentration of D/F.

**(g) *Establishment of monitoring and operating parameter values.*** The owner or operator of new or existing affected sources and emission units must establish a minimum or maximum operating parameter value, or an operating parameter range for each parameter to be monitored as required by §63.1510 that ensures compliance with the applicable emission limit or standard. To establish the minimum or maximum value or range, the owner or operator must use the appropriate procedures in this section and submit the information required by §63.1515(b)(4) in the notification of compliance status report. The owner or operator may use existing data in addition to the results of performance tests to establish operating parameter values for compliance monitoring provided each of the following conditions are met to the satisfaction of the applicable permitting authority:

**(1)** The complete emission test report(s) used as the basis of the parameter(s) is submitted.

- (2) The same test methods and procedures as required by this subpart were used in the test.
- (3) The owner or operator certifies that no design or work practice changes have been made to the source, process, or emission control equipment since the time of the report.
- (4) All process and control equipment operating parameters required to be monitored were monitored as required in this subpart and documented in the test report.

§ 63.1512 Performance test/compliance demonstration requirements and procedures.

(j) *Secondary aluminum processing unit.* The owner or operator must conduct performance tests as described in paragraphs (j)(1) through (3) of this section. The results of the performance tests are used to establish emission rates in lb/ton of feed/charge for PM and HCl and µg TEQ/Mg of feed/charge for D/F emissions from each emission unit. These emission rates are used for compliance monitoring in the calculation of the 3-day, 24-hour rolling average emission rates using the equation in §63.1510(t). A performance test is required for:

(2) Each group 1 furnace that processes scrap other than clean charge to measure emissions of PM and D/F and either:

(k) *Feed/charge weight measurement.* During the emission test(s) conducted to determine compliance with emission limits in a kg/Mg (lb/ton) format, the owner or operator of an affected source or emission unit, subject to an emission limit in a kg/Mg (lb/ton) of feed/charge format, must measure (or otherwise determine) and record the total weight of feed/charge to the affected source or emission unit for each of the three test runs and calculate and record the total weight. An owner or operator that chooses to demonstrate compliance on the basis of the aluminum production weight must measure the weight of aluminum produced by the emission unit or affected source instead of the feed/charge weight.

(r) *Labeling.* The owner or operator of each scrap dryer/delacquering kiln/decoating kiln, group 1 furnace, group 2 furnace and in-line fluxer must submit the information described in §63.1515(b)(3) as part of the notification of compliance status report to document conformance with the operational standard in §63.1506(b).

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79817, Dec. 30, 2002; 69 FR 53984, Sept. 3, 2004]

§ 63.1513 Equations for determining compliance.

(b) *PM, HCl and D/F emission limits.*

(2) Use Equation 7A of this section to determine compliance with an emission limit for D/F:

$$E = \frac{C \times Q}{P} \quad (\text{Eq. 7A})$$

Where:

E = Emission rate of D/F, µg/Mg (gr/ton) of feed;

C = Concentration of D/F, µg/dscm (gr/dscf);

Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr); and

P = Production rate, Mg/hr (ton/hr).

(d) *Conversion of D/F measurements to TEQ units.* To convert D/F measurements to TEQ units, the owner or operator must use the procedures and equations in "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update" (EPA-625/3-89-016), incorporated by reference in §63.1502 of this subpart, available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia, NTIS no. PB 90-145756.

**(e) Secondary aluminum processing unit.** Use the procedures in paragraphs (e)(1), (2), and (3) or the procedure in paragraph (e)(4) of this section to determine compliance with emission limits for a secondary aluminum processing unit.

**(3)** Use Equation 11 to compute the aluminum mass-weighted D/F emissions for the secondary aluminum processing unit. Compliance is achieved if the mass-weighted emissions for the secondary aluminum processing unit is less than or equal to the emission limit for the secondary aluminum processing unit ( $L_{cD/F}$ ) calculated using Equation 3 in §63.1505(k).

$$E_{cD/F} = \frac{\sum_{i=1}^n (E_{tiD/F} \times T_{ti})}{\sum_{i=1}^n (T_{ti})} \quad (\text{Eq. 11})$$

Where,

$E_{cD/F}$  = The mass-weighted D/F emissions for the secondary aluminum processing unit; and

$E_{tiD/F}$  = Measured D/F emissions for individual emission unit i.

**(4)** As an alternative to using the equations in paragraphs (e)(1), (2), and (3) of this section, the owner or operator may demonstrate compliance for a secondary aluminum processing unit by demonstrating that each existing group 1 furnace is in compliance with the emission limits for a new group 1 furnace in §63.1505(i) and that each existing in-line fluxer is in compliance with the emission limits for a new in-line fluxer in §63.1505(j).

[65 FR 15710, Mar. 23, 2000, as amended at 69 FR 53984, Sept. 3, 2004]

#### Notifications, Reports, And Records

##### § 63.1515 Notifications.

**(a) Initial notifications.** The owner or operator must submit initial notifications to the applicable permitting authority as described in paragraphs (a)(1) through (7) of this section.

**(1)** As required by §63.9(b)(1), the owner or operator must provide notification for an area source that subsequently increases its emissions such that the source is a major source subject to the standard.

**(6)** As required by §63.9(e) and (f), the owner or operator must provide notification of the anticipated date for conducting performance tests and visible emission observations. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.

**(b) Notification of compliance status report.** Each owner or operator of an existing affected source must submit a notification of compliance status report within 60 days after the compliance date established by §63.1501(a). Each owner or operator of a new affected source must submit a notification of compliance status report within 90 days after conducting the initial performance test required by §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the information specified in paragraphs (a)(1) through (10) of this section. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. In a State with an approved operating permit program where delegation of authority under section 112(l) of the CAA has not been requested or approved, the owner or operator must provide duplicate notification to the applicable Regional Administrator. If an owner or operator submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include:

**(1) All information required in §63.9(h). The owner or operator must provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests).**

**(3) Unit labeling as described in §63.1506(b), including process type or furnace classification and operating requirements.**

**(4) The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value ( e.g., lime injection rate, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.**

**(9) The OM&M plan (including site-specific monitoring plan for each group 1 furnace with no add-on air pollution control device).**

**(10) Startup, shutdown, and malfunction plan, with revisions.**

**[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 59793, Sept. 24, 2002; 67 FR 79818, Dec. 30, 2002]**

**§ 63.1516 Reports.**

**(a) *Startup, shutdown, and malfunction plan/reports.* The owner or operator must develop a written plan as described in §63.6(e)(3) that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The owner or operator shall also keep records of each event as required by §63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in §63.6(e)(3). In addition to the information required in §63.6(e)(3), the plan must include:**

**(1) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and**

**(2) Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions.**

**(b) *Excess emissions/summary report.* The owner or operator must submit semiannual reports according to the requirements in §63.10(e)(3). Except, the owner or operator must submit the semiannual reports within 60 days after the end of each 6-month period instead of within 30 days after the calendar half as specified in §63.10(e)(3)(v). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period.**

**(1) A report must be submitted if any of these conditions occur during a 6-month reporting period:**

**(iv) An excursion of a compliant process or operating parameter value or range ( e.g., lime injection rate or screw feeder setting, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature, definition of acceptable scrap, or other approved operating parameter).**

**(v) An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan as described in §63.6(e)(3).**

**(vi) An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of this subpart.**

**(vii) A deviation from the 3-day, 24-hour rolling average emission limit for a secondary aluminum processing unit.**

**(3) The owner or operator must submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.**

**(c) *Annual compliance certifications.* For the purpose of annual certifications of compliance required by 40 CFR part 70 or 71, the owner or operator must certify continuing compliance based upon, but not limited to, the following conditions:**

**(1) Any period of excess emissions, as defined in paragraph (b)(1) of this section, that occurred during the year were reported as required by this subpart; and**

**(2) All monitoring, recordkeeping, and reporting requirements were met during the year.**

**[65 FR 15710, Mar. 23, 2000, as amended at 69 FR 53984, Sept. 3, 2004; 71 FR 20461, Apr. 20, 2006]**

#### **§ 63.1517 Records**

**(a) As required by §63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and this subpart.**

**(1) The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site.**

**(2) The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and**

**(3) The owner or operator may report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.**

**(b) In addition to the general records required by §63.10(b), the owner or operator of a new or existing affected source (including an emission unit in a secondary aluminum processing unit) must maintain records of:**

**(5) For each group 1 furnace (with or without add-on air pollution control devices) or in-line fluxer, records of 15-minute block average weights of gaseous or liquid reactive flux injection, total reactive flux injection rate and calculations (including records of the identity, composition, and weight of each addition of gaseous, liquid or solid reactive flux), including records of any period the rate exceeds the compliant operating parameter value and corrective action taken.**

**(7) For each affected source and emission unit subject to an emission standard in kg/Mg (lb/ton) of feed/charge, records of feed/charge (or throughput) weights for each operating cycle or time period used in the performance test.**

**(13) Records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements.**

**(14) Records of annual inspections of emission capture/collection and closed vent systems.**

**(15) Records for any approved alternative monitoring or test procedure.**

**(16) Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:**

**(i) Startup, shutdown, and malfunction plan;**

**(ii) OM&M plan; and**

**(iii) Site-specific secondary aluminum processing unit emission plan (if applicable).**

**(17) For each secondary aluminum processing unit, records of total charge weight, or if the owner or operator chooses to comply on the basis of aluminum production, total aluminum produced for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.**

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79818, Dec. 30, 2002]

**Other**

**§ 63.1518 Applicability of general provisions.**

The requirements of the general provisions in subpart A of this part that are applicable to the owner or operator subject to the requirements of this subpart are shown in appendix A to this subpart.

**§ 63.1519 Implementation and enforcement.**

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this regulation. Contact the applicable U.S. EPA Regional Office to find out if this subpart is delegated to a State, local, or Tribal agency.

(b) In delegating implementation and enforcement authority of this regulation to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

(c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.

(1) Approval of alternatives to the requirements in §§63.1500 through 63.1501 and 63.1505 through 63.1506.

(2) Approval of major alternatives to test methods for under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to monitoring under §63.8(f), as defined in §63.90, and as required in this subpart.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

[68 FR 37359, June 23, 2003]

**§ 63.1520 [Reserved]**

**Table 2 to Subpart RRR of Part 63—Summary of Operating Requirements for New and Existing Affected Sources and Emission Units**

Affected source/emission unit	Monitor type/operation/process	Operating requirements
All affected sources and emission units subject to production-based (lb/ton of feed) emission limits <sup>a</sup>	Charge/feed weight or Production weight	Operate a device that records the weight of each charge; Operate in accordance with OM&M plan. <sup>b</sup>
Group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln/decoating kiln	Labeling	Identification, operating parameter ranges and operating requirements posted at affected sources and emission units; control device temperature and residence time requirements posted at scrap dryer/delacquering kiln/decoating kiln.

<sup>a</sup>Thermal chip dryers, scrap dryers/delacquering kilns/decoating kilns, dross-only furnaces, in-line fluxers and group 1 furnaces including melting/holding furnaces.

<sup>b</sup>OM&M plan—Operation, maintenance, and monitoring plan.

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 79818, Dec. 30, 2002; 69 FR 53984, Sept. 3, 2004]

**Table 3 to Subpart RRR of Part 63—Summary of Monitoring Requirements for New and Existing Affected Sources and Emission Units**

Affected source/Emission unit	Monitor type/Operation/Process	Monitoring requirements
All affected sources and emission units subject to production-based (lb/ton of feed/charge) emission limits <sup>a</sup>	Feed/charge weight	Record weight of each feed/charge, weight measurement device or other procedure accuracy of $\pm 1\%$ <sup>b</sup> ; calibrate according to manufacturers specifications, or at least once every 6 months.
Group 1 furnace, group 2 furnace, in-line fluxer, and scrap dryer/delacquering kiln/decoating kiln	Labeling	Check monthly to confirm that labels are intact and legible.

<sup>a</sup>Thermal chip dryers, scrap dryers/delacquering kilns/decoating kilns, dross-only furnaces, in-line fluxers and group 1 furnaces or melting/holding furnaces.

<sup>b</sup>Permitting agency may approve measurement devices of alternative accuracy, for example in cases where flux rates are very low and costs of meters of specified accuracy are prohibitive; or where feed/charge weighing devices of specified accuracy are not practicable due to equipment layout or charging practices.

[65 FR 15710, Mar. 23, 2000, as amended at 69 FR 53985, Sept. 3, 2004]

**Appendix A to Subpart RRR of Part 63—General Provisions Applicability to Subpart RRR**

Citation	Requirement	Applies to RRR	Comment
§63.1(a)(1)–(4)	General Applicability	Yes.	
§63.1(a)(5)		No	[Reserved].
§63.1(a)(6)–(8)		Yes.	
§63.1(a)(9)		No	[Reserved].
§63.1(a)(10)–(14)		Yes.	
§63.1(b)	Initial Applicability Determination	Yes	EPA retains approval authority.
§63.1(c)(1)	Applicability After Standard Established	Yes.	
§63.1(c)(2)		Yes	§63.1500(e) exempts area sources subject to this subpart from the obligation to obtain Title V operating permits.
§63.1(c)(3)		No	[Reserved].
§63.1(c)(4)–(5)		Yes.	
§63.1(d)		No	[Reserved].
§63.1(e)	Applicability of Permit Program	Yes.	
§63.2	Definitions	Yes	Additional definitions in §63.1503.

Citation	Requirement	Applies to RRR	Comment
§63.3	Units and Abbreviations	Yes	
§63.4(a)(1)–(3)	Prohibited Activities	Yes.	
§63.4(a)(4)		No	[Reserved]
§63.4(a)(5)		Yes.	
§63.4(b)–(c)	Circumvention/ Severability	Yes.	
§63.5(a)	Construction and Reconstruction—Applicability	Yes.	
§63.5(b)(1)	Existing, New, Reconstructed Sources—Requirements	Yes.	
§63.5(b)(2)		No	[Reserved].
§63.5(b)(3)–(6)		Yes.	
§63.5(c)		No	[Reserved].
§63.5(d)	Application for Approval of Construction/ Reconstruction	Yes.	
§63.5(e)	Approval of Construction/ Reconstruction	Yes.	
§63.5(f)	Approval of Construction/Reconstruction Based on State Review	Yes.	
§63.6(a)	Compliance with Standards and Maintenance—Applicability	Yes.	
§63.6(b)(1)–(5)	New and Reconstructed Sources—Dates	Yes.	
§63.6(b)(6)		No	[Reserved].
§63.6(b)(7)		Yes.	
§63.6(c)(1)	Existing Sources Dates	Yes	§63.1501 specifies dates.
§63.6(c)(2)		Yes.	
§63.6(c)(3)–(4)		No	[Reserved].
§63.6(c)(5)		Yes.	
§63.6(d)		No	[Reserved].
§63.6(e)(1)–(2)	Operation & Maintenance Requirements	Yes	§63.1510 requires plan.
§63.6(e)(3)	Startup, Shutdown, and Malfunction Plan	Yes.	
§63.6(f)	Compliance with Emission Standards	Yes.	
§63.6(g)	Alternative Standard	No	
§63.6(h)	Compliance with Opacity/VE Standards	Yes.	

Citation	Requirement	Applies to RRR	Comment
§63.6(i)(1)–(14)	Extension of Compliance	Yes.	
§63.6(i)(15)		No	[Reserved].
§63.6(i)(16)		Yes.	
§63.6(j)	Exemption from Compliance	Yes.	
§63.7(a)–(h)	Performance Test Requirements-Applicability and Dates	Yes	Except §63.1511 establishes dates for initial performance tests.
§63.7(b)	Notification	Yes.	
§63.7(c)	Quality Assurance/Test Plan	Yes.	
§63.7(d)	Testing Facilities	Yes.	
§63.7(e)	Conduct of Tests	Yes.	
§63.7(f)	Alternative Test Method	Yes.	
§63.7(g)	Data Analysis	Yes.	
§63.7(h)	Waiver of Tests	Yes.	
§63.8(a)(1)	Monitoring Requirements—Applicability	Yes.	
§63.8(a)(2)		Yes.	
§63.8(a)(3)		No	[Reserved]
§63.8(a)(4)		Yes	
§63.8(b)	Conduct of Monitoring	Yes.	
§63.8(c)(1)–(3)	CMS Operation and Maintenance	Yes.	
§63.8(c)(4)–(8)		Yes.	
§63.8(d)	Quality Control	Yes.	
§63.8(e)	CMS Performance Evaluation	Yes.	
§63.8(f)(1)–(5)	Alternative Monitoring Method	No	§63.1510(w) includes provisions for monitoring alternatives.
§63.8(f)(6)	Alternative to RATA Test	Yes.	
§63.8(g)(1)	Data Reduction	Yes.	
§63.8(g)(2)		No	§63.1512 requires five 6-minute averages for an aluminum scrap shredder.
§63.8(g)(3)–(5)		Yes.	
§63.9(a)	Notification Requirements—Applicability	Yes.	
§63.9(b)	Initial Notifications	Yes.	
§63.9(c)	Request for Compliance Extension	Yes.	

Citation	Requirement	Applies to RRR	Comment
§63.9(d)	New Source Notification for Special Compliance Requirements	Yes.	
63.9(e)	Notification of Performance Test	Yes.	
§63.9(f)	Notification of VE/Opacity Test	Yes.	
§63.9(g)	Additional CMS Notifications	Yes.	
§63.9(h)(1)–(3)	Notification of Compliance Status	Yes	Except §63.1515 establishes dates for notification of compliance status reports.
§63.9(h)(4)		No	[Reserved].
§63.9(h)(5)–(6)		Yes.	
§63.9(i)	Adjustment of Deadlines	Yes.	
§63.9(j)	Change in Previous Information	Yes.	
§63.10(a)	Recordkeeping/Reporting—Applicability	Yes.	
§63.10(b)	General Requirements	Yes	§63.1517 includes additional requirements.
§63.10(c)(1)	Additional CMS Recordkeeping	Yes.	
§63.10(c)(2)–(4)		No	[Reserved].
§63.10(c)(5)		Yes.	
§63.10(c)(6)		Yes.	
§63.10(c)(7)–(8)		Yes.	
§63.10(c)(9)		No	[Reserved].
§63.10(c)(10)–(13)		Yes.	
§63.10(c)(14)		Yes.	
§63.10(d)(1)	General Reporting Requirements	Yes.	
§63.10(d)(2)	Performance Test Results	Yes.	
§63.10(d)(3)	Opacity or VE Observations	Yes.	
§63.10(d)(4)–(5)	Progress Reports/Startup, Shutdown, and Malfunction Reports	Yes.	
§63.10(e)(1)–(2)	Additional CMS Reports	Yes.	
§63.10(e)(3)	Excess Emissions/CMS Performance Reports	Yes	Reporting deadline given in §63.1516.
§63.10(e)(4)	COMS Data Reports	Yes.	

Citation	Requirement	Applies to RRR	Comment
§63.10(f)	Recordkeeping/Reporting Waiver	Yes.	
§63.11(a)–(b)	Control Device Requirements	No	Flares not applicable.
§63.12(a)–(c)	State Authority and Delegations	Yes.	EPA retains authority for applicability determinations.
§63.13	Addresses	Yes.	
§63.14	Incorporation by Reference	Yes	Chapters 3 and 5 of ACGIH Industrial Ventilation Manual for capture/collection systems; and Interim Procedures for Estimating Risk Associated with Exposure to Mixtures of Chlorinated Dibenzofurans (CDDs and CDFs) and 1989 Update (incorporated by reference in §63.1502).
§63.15	Availability of Information/Confidentiality	Yes.	

[65 FR 15710, Mar. 23, 2000, as amended at 67 FR 59793, Sept. 24, 2002; 67 FR 79818, Dec. 30, 2002; 69 FR 53986, Sept. 3, 2004; 70 FR 75346, Dec. 19, 2005]

**Additional Changes to Permit:**

Upon further review, the IDEM, OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table of Contents has been updated as necessary.

1. All references to IDEM, OAQ’s mailing address phone and facsimile numbers have been updated throughout the permit and the specific mail codes (MC) for each of the IDEM branches have been added to improve mail delivery:

Indiana Department of Environmental Management  
 Office of Air Quality  
 100 North Senate Avenue  
 Indianapolis, Indiana 46204-2251

Malfunction Report:  
 Facsimile No.: 317-233-~~5967~~**6865**

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

2. For clarification purposes, IDEM, OAQ has updated the front page of the permit as shown below:

...  
 (herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units 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.

...

3. Effective October 25, 2006, Indiana redesignated Vanderburgh County as attainment for Ozone under the 8-hour standard. Additionally, IDEM, OAQ has decided to remove the information regarding the Authorized Individual from Section A.1 of the permit. Listing the name and/or title in the permit has resulted in unnecessary administrative amendments in the past. Therefore, IDEM, OAQ does not consider it beneficial to maintain or update this information in the permits. IDEM, OAQ will continue to retain this information up-to-date in their permit tracking system.

Section A.1 was updated as shown.

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 secondary aluminum processing plant.

Authorized Individual:	President/Vice President
Source Address:	1901 West Louisiana, Evansville, Indiana 47710
Mailing Address:	P.O. Box 364, Evansville, Indiana 47703
General Source Phone:	(812) 423-5914
SIC Code:	3341
County Location:	Vanderburgh
Source Location Status:	Nonattainment for PM2.5 and for ozone under the 8-hour standard
Source Status:	Attainment for all other criteria pollutants <del>Minor under Emission Offset</del> Minor <b>Source</b> , under PSD and Nonattainment NSR Rules Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

4. On December 19, 2005, the U.S. EPA finalized the permanent exemptions from the Title V operating permit program for five categories of non-major (area) sources that are subject to NESHAP, 40 CFR 63, Subpart RRR. Intrametco falls under one of the five categories because it is a secondary aluminum processing plant subject to area source requirements under 40 CFR 63, Subpart RRR. Therefore, it is no longer required to submit an application for a Part 70 Operating Permit. Therefore, Condition A.3 – Part 70 Permit Applicability has been deleted as follows:

A.3 ~~Part 70 Permit Applicability [326 IAC 2-7-2]~~

~~This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because it is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 – Applicability). [Note: This source is subject to the Part 70 Permit requirements because it is subject to the requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart RRR – Secondary Aluminum Production and is an area source of HAPs]. This source shall apply for a Part 70 (Title V) operating permit by December 9, 2005.~~

5. IDEM, OAQ has made the following changes to the conditions in Sections B and C:
  - (a) IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has deleted paragraph (b) of Preventive Maintenance Plan condition.

- (b) IDEM, OAQ has included the following conditions under Section B: Term of Conditions and Prior Permits Superseded pursuant to 326 IAC 2-1.1-9.5; Enforceability; Servability; Property Rights or Exclusive Privilege; Duty to Provide Information; Certification; and Termination of Right to Operate pursuant to 326 IAC 2-6.1-7(a).
- (c) IDEM, OAQ has revised the following conditions under Section B: Permit Term and Permit Renewal pursuant to 326 IAC 2-6.1-7(a); and Permit Revision pursuant to 326 IAC 2-5.1-3(e)(3). Furthermore, IDEM, OAQ has removed item (d) concerning nonroad engines from the Permit Revision condition in Section B because 40 CFR Part 89, Appendix A specifically indicates that states are not precluded from regulating the use and operation of nonroad engines, such as regulations on hour of usage, daily mass emission limits, or sulfur limits on fuel; nor are permits regulating such operations precluded, once the engine is no longer new.
- (d) A contract between EEPA and IDEM, OAQ allows EEPA to collect MSOP annual fees via direct billing of the source. Therefore, the Annual Fee Payment condition in Section B was updated.
- (e) IDEM realizes that the specifications of Condition C.10 - Pressure Gauge and Other Instrument Specifications, can only be practically applied to analog units, and has therefore clarified the condition to state that the condition only applies to analog units. Upon further review, IDEM has also determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the language in Condition C.10 has been revised.
- (f) IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan (Condition C.11). The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. Therefore, the condition for "Compliance Response Plan" has been replaced by the condition for "Response to Excursions or Exceedances". The Section D conditions that refer to this condition have been revised to reflect the new condition title.
- (g) Conditions C.13 - Malfunctions Report, were revised to include references to Evansville Environmental Protection Agency (EEPA).

The conditions in Section B and C have been revised as follows to reflect the above changes:

**SECTION B ————— GENERAL CONDITIONS**

~~THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.~~

~~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~~

~~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]~~

---

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

~~The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.~~

~~B.5 — Modification to Permit [326 IAC 2]~~

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~~All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).~~

~~B.6 — Annual Notification [326 IAC 2-6.1-5(a)(5)]~~

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- ~~(a) — Annual notification shall be submitted 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) — Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.~~
- ~~(c) — The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:~~

~~Compliance Branch, Office of Air Quality  
Indiana Department of Environmental Management  
100 North Senate Avenue  
Indianapolis, IN 46204-2251~~

~~and~~

~~Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145~~

- ~~(d) — 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, and Evansville Environmental Protection Agency (EEPA), on or before the date it is due.~~

~~B.7 — Preventive Maintenance Plan [326 IAC 1-6-3]~~

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- ~~(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 (this time frame is determined on a case by case basis but no more than ninety (90) days) after issuance of this permit, including the following information on each emissions unit:~~

- ~~(1) — Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;~~

~~(2) — A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and~~

~~(3) — Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.~~

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

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

~~(b) — The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~

~~(c) — A copy of the PMP's shall be submitted to IDEM, OAQ, and Evansville Environmental Protection Agency (EEPA) upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and EEPA. IDEM, OAQ, and EEPA may require the Permittee to revise its PMP whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(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.8 — Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]~~

~~(a) — Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.~~

~~(b) — Any application requesting an amendment or modification of this permit shall be submitted to:~~

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713

~~(812) 435-6145~~

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

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

~~(d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.~~

~~B.9 Source Modification [326 IAC 2-6.1-6]~~

~~A modification, construction, or reconstruction is governed by 326 IAC 2 and 326 IAC 2-7-10.5.~~

~~B.10 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] [IC 13-17-3-2] [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, and EEPA, 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 this title or the conditions of this permit or any operating permit revisions;~~

~~(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 processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;~~

~~(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and~~

~~(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.~~

~~B.11 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]~~

~~Pursuant to [326 IAC 2-6.1-6(d)(3)]:~~

~~(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, and Evansville Environmental Protection Agency (EEPA) within thirty (30) days of the change.~~

~~(b) The written notification shall be sufficient to transfer the permit to the new owner by an notice only change pursuant to 326 IAC 2-6.1-6(d)(3).~~

~~(c) IDEM, OAQ, and EEPA shall issue a revised permit.~~

~~The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.~~

**B.12 Annual Fee Payment [326 IAC 2-1.1-7]**

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(a) The Permittee shall pay annual fees to EEPA at the address listed below by the date indicated on the invoice.

Evansville Environmental Protection Agency (EEPA)  
100 East Walnut Street, Suite 100  
Evansville, Indiana 47713

(b) The Permittee may call the EEPA at the following telephone number: (812) 435-6145 to determine the appropriate permit fee and due date.

**B.13 Credible Evidence [326 IAC 1-1-6]**

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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 B GENERAL CONDITIONS**  
**THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.**

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

---

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

**B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5] [IC13-15-3-6(a)]**

---

(a) This permit, M163-18011-00071, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

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

**B.4 Enforceability**

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(a) 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 and EEPA, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

(b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by EEPA.

**B.5 Severability**

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

**B.6 Property Rights or Exclusive Privilege**

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

**B.7 Duty to Provide Information**

---

- (a) The Permittee shall furnish to IDEM, OAQ, and EEPA within a reasonable time, any information that IDEM, OAQ, and EEPA 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. Upon request, the Permittee shall also furnish to IDEM, OAQ, and EEPA copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

**B.8 Certification**

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

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

---

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

- (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, and EEPA on or before the date it is due.

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

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

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

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, and EEPA upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and EEPA. IDEM, OAQ, and EEPA may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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- (a) All terms and conditions of permits established prior to M163-18011-00071 and issued pursuant to permitting programs approved into the state implementation plan have been either
- (1) incorporated as originally stated,
  - (2) revised, or

(3) deleted

(b) All previous registrations and permits are superseded by this permit.

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

---

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

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

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

Request for renewal shall be submitted to:

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

(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, and EEPA 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, and EEPA, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, and EEPA, any additional information identified as being needed to process the application.

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

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(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

and

**Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145**

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

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

**B.15 Source Modification Requirement**

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

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

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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, EEPA, 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 this title or the conditions of this permit or any operating permit revisions;
- (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 processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.17 Transfer of Ownership or Operation [326 IAC 2-6.1-6]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

and

Evansville Environmental Protection Agency (EEPA)  
100 E. Walnut Avenue, Suite 100  
CK Newsome Community Center  
Evansville, IN 47713  
(812) 435-6145

The application which shall be submitted by the Permittee does require the certification by the "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 immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

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

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- (a) The Permittee shall pay annual fees to EEPA at the address listed below by the date indicated on the invoice.

Evansville Environmental Protection Agency (EEPA)  
100 East Walnut Street, Suite 100  
Evansville, Indiana 47713

- (b) The Permittee may call the EEPA at the following telephone number: (812) 435-6145 to determine the appropriate permit fee and due date.

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

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

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

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

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

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The Permittee shall not operate an incinerator or incinerate any waste or refuse except as

**provided in 326 IAC 4-2 and 326 IAC 9-1-2.**

**C.68 Performance Testing [326 IAC 3-6]**

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...

- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and **EEPA** ~~(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 and **EEPA**, ~~(and local agency)~~, 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 Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]**

**C.10C.12 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11]**  
~~[326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]~~

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- (a) ~~Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed~~ **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 normal maximum reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.**
- (b) ~~Whenever a condition in this permit requires the measurement of a temperature, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.~~
- (c) ~~The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.~~
- (cb) The Permittee may request that the IDEM, OAQ and GDEA approve the use of a ~~pressure gauge or other~~ **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 ~~pressure drop or other~~ **the** parameters.

**C.11C.13 Compliance Response Plan - Preparation and Implementation Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]**

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- (a) ~~The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have a n Operation, Maintenance, and Monitoring (OMM) Plan under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ, and EEPA upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:~~
- (1) ~~Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~
- (2) ~~If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan to include such response steps taken.~~

~~The OMM Plan shall be submitted within the time frames specified by the applicable 40 CFR 63 requirement.~~

- (b) ~~For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~
- (1) ~~Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; or~~
  - (2) ~~If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~
  - (3) ~~If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.~~
  - (4) ~~Failure to take reasonable response steps shall be considered a deviation from the permit.~~
- (c) ~~The Permittee is not required to take any further response steps for any of the following reasons:~~
- (1) ~~A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~
  - (2) ~~The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~
  - (3) ~~An automatic measurement was taken when the process was not operating.~~
  - (4) ~~The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~
- (d) ~~Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~
- (a) **Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.**
- (b) **The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or**

**exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:**

- (1) **initial inspection and evaluation;**
  - (2) **recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or**
  - (3) **any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.**
- (c) **A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:**
- (1) **monitoring results;**
  - (2) **review of operation and maintenance procedures and records;**
  - (3) **inspection of the control device, associated capture system, and the process.**
- (d) **Failure to take reasonable response steps shall be considered a deviation from the permit.**
- (e) **The Permittee shall maintain the following records:**
- (1) **monitoring data;**
  - (2) **monitor performance data, if applicable; and**
  - (3) **corrective actions taken.**

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

~~C.4517~~ General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

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- ...
- (e) **The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and EEPA. The general public may request this information from the IDEM, OAQ and EEPA under 326 IAC 17.1.**

6. IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan (PMP). Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

#### ~~D.1.16~~ Baghouse Inspections

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~~An inspection shall be performed each calendar quarter of all bags controlling the furnaces when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.~~

#### ~~D.1.196~~ General Record Keeping Requirements

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- (a) To document compliance with Condition D.1.154, the Permittee shall maintain ~~daily~~ **once**

**per day records of the differential static pressure drop during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (i.e. the process did not operate that day).**

- ~~(b) To document compliance with Condition D.1.16, the Permittee shall maintain records of the results of the inspections required under Condition D.1.16~~
- ~~(c) To document compliance with Condition D.1.7, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~
- (bd) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.**

7. Paragraph (a) of the Broken or Failed Bag Detection Condition D.1.17 (now D.1.5) has been deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. Paragraph (b) of the Broken or Failed Bag Detection condition has been revised for those processes that operate in batch mode. The condition required an emission unit to be shut down immediately in case of baghouse failure. However, IDEM is aware there can be safety issues with shutting down a process in the middle of a batch. IDEM also realizes that in some situations, shutting down an emissions unit mid-process can cause equipment damage. Therefore, since it is not always possible to shut down a process with material remaining in the equipment, IDEM has revised this condition to state that in the case of baghouse failure, the feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable. In addition, Condition D.1.3 has been added to the permit as follows:

#### **D.1.3 Particulate Control**

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- (a) In order to comply with Condition D.1.1, South baghouse 2 and North baghouse 1 for particulate control shall be in operation and control emissions at all times that EU-01 and EU-02 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.**

#### **D.1.475 Broken or Failed Bag Detection**

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~~In the event that bag failure has been observed:~~

- ~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 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.~~

- (a) For a single compartment baghouses ~~controlling emissions from a process operated continuously~~, if failure is indicated by a significant drop in the baghouse=s pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then a failed units and the associated process **shall** be shut down immediately until the failed units have **has** been repaired or replaced.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit

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.

8. A certification form for the MSOP has been included.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**MINOR SOURCE OPERATING PERMIT (MSOP)  
CERTIFICATION**

Source Name: Intrametco Processing, Inc.  
Source Address: 1901 West Louisiana, Evansville, Indiana 47710  
Mailing Address: P.O. Box 364, Evansville, Indiana 47703  
MSOP No.: M163-18011-00071

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

Please check what document is being certified:

- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

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

Signature: \_\_\_\_\_

<b>Printed Name:</b>
<b>Title/Position:</b>
<b>Date:</b>

9. The referral to 326 IAC 2-5.1-3 (Registration Provisions) have been removed from Section D.1 as follows:

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

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

10. The existing furnace EU02 and the aluminum sow mold casting operation EU07, which have PTE greater than the exemption thresholds in 326 IAC 2-1.1-3(e), were both constructed in 1989 without receiving proper air approval. This MSOP includes the requirements which regulate the construction of these units. Therefore, the permit type for this MSOP has been revised to New Source Review and MSOP. The cover page of the permit has been revised as follows:

**NEW SOURCE REVIEW AND MINOR SOURCE OPERATING PERMIT  
OFFICE OF AIR QUALITY AND  
EVANSVILLE ENVIRONMENTAL  
PROTECTION AGENCY**

**Appendix A: Emission Calculations**  
**PM/PM10 Emissions**  
**From Two (2) Electric Induction Furnaces (Identified as F#1 and F#2)**

**Company Name:** Intrametco Processing, Inc.  
**Address:** 1901 West Louisiana, Evansville, Indiana 47710  
**MSOP:** 163-18011-00071  
**Reviewer:** ERG/YC  
**Date:** July 23, 2007

Emission Units	Maximum Throughput Rate of Al		* Uncontrolled Emission Factor PM (lb/ton)	PTE of PM (tons/year)	* Uncontrolled Emission Factor PM10 (lb/ton)	PTE of PM10 (tons/year)	PTE of PM per furnace (lb/hour)	Particulate Emission Limit per furnace (lbs/hour)
	(lb/hour)	(ton/hour)						
Each Furnace # 1 and # 2	3,500	1.75	1.90	14.6	1.70	13.0	1.66	3.75
				29.1		26.1		

\* Emission factor is from FIRE Vol II, Chapter 14 - Aluminum (SCC 3-04-001-02 - Smelting Furnace/Crucible).

**METHODOLOGY**

PTE before control (tons/year) = Maximum throughput (tons/hour) \* Emission factor (lb/ton) \* 1ton/2000 lbs \* 8760 hours/year

Process	Actual Usage (lb/year)	Weight % NaCl	Usage Rate NaCl (lb/year)	M.W NaCl	M.W HCl	* PTE HCl (tons/year)	** Emission Rate PCDD/PCDF (g TEQ/ton of Al)	PTE of PCDD/PCDF (tons/year)
Fluxing	7,200	0.4	2,880	58.4	36.5	3.93	1.05E-04	1.15E-07

\* Assumes worst case scenario in which all NaCl in flux is emitted as HCl.

\*\* Emission rate based on stack test results conducted on July 10, 2003.

PCDD/PCDF - Polychlorinated dibenzo p-dioxins and polychlorinated debenzo furans.

**METHODOLOGY**

PTE of HCl (tons/year) = Mol. Wt HCl \* 1/Mol.Wt NaCl \* Usage Rate NaCl (lb/year) \* 1ton/2000 lbs \* 8760 hours/year \* 1/ 2000 hours of operation

PTE of PCDD/PCDF (tons/year) = Max. Throughput Rate of Al (tons/hour) \* Emission Rate (gr TEQ/ton of Al Processed) \* 1 lb/7000 gr \* 8760 hours/year \* 1 ton/2000 lbs

**Appendix A: Emission Calculations  
PM/PM10 Emissions  
From Scrap Shredders (EU04 and EU05)**

**Company Name:** Intrametco Processing, Inc.  
**Address:** 1901 West Louisiana, Evansville, Indiana 47710  
**MSOP:** 163-18011-00071  
**Reviewer:** ERG/YC  
**Date:** July 23, 2007

Emission Unit	Maximum Throughput (tons/hour)	* Emission Factor PM/PM10 (lb/ton)	PTE of PM/PM10		Particulate Emission Limit (lbs/hour)
			(lbs/hour)	(tons/year)	
Primary Shredder EU04	3.50	0.57	2.00	8.74	9.49
Auxiliary Shredder EU05	1.75	0.57	1.00	4.37	5.97
<b>Total</b>				<b>13.1</b>	

\* There are no PM/PM10 emission factors for a scrap shredder. Therefore, PM/PM10 emission factor is taken from a past certificate issued to the source by the Office of Evansville Environmental Protection Agency .

**METHODOLOGY**

PTE of PM/PM10 (lbs/hour) = Maximum Throughput (tons/hour) \* Emission Factor (lb/ton)

PTE of PM/PM10 (tons/year) = Maximum Throughput (tons/hour) \* Emission Factor (lb/ton) \* 8760 hours/year \* 1 ton/2000 lbs

**Appendix A: Emission Calculations**  
**Sow Molds Castings Operations**

**Company Name:** Intrametco Processing, Inc.  
**Address:** 1901 West Louisiana, Evansville, Indiana 47710  
**MSOP:** 163-18011-00071  
**Reviewer:** ERG/YC  
**Date:** July 23, 2007

**POTENTIAL TO EMIT BEFORE CONTROLS IN TONS PER YEAR**

Emission Units	Maximum Throughput		* PM Emission Factor (lbs/ton)	PTE of PM (tons/year)	* PM10 Emission Factor (lb/ton)	PTE of PM10 (tons/year)	*VOC Emission Factor (lb/ton)	PTE of VOC (tons/year)	*SO <sub>2</sub> Emission Factor (lb/ton)	PTE of SO <sub>2</sub> (tons/year)	*NO <sub>x</sub> Emission Factor (lb/ton)	PTE of NO <sub>x</sub> (tons/year)
	(lbs/hour)	(tons/hour)										
Aluminum Castings	3,500	1.75	NA	negligible	NA	negligible	0.14	1.07	0.02	0.15	0.01	0.08
Aluminum Pouring/Cooling	3,500	1.75	NA	negligible	NA	negligible	0.14	1.07	NA	0.00	NA	0.00
Aluminum Fluxing	2	0.001	1,000	4.38	532	2.33	0.00	0.00	NA	0.00	NA	0.00
Aluminum Manual Knockout	3,500	1.75	NA	negligible	NA	negligible	1.2	9.20	NA	0.00	NA	0.00
Dross Cooling	105	0.05	0.15	0.03	0.20	0.05	NA	NA	NA	NA	NA	NA
	<b>Total for each furnace =</b>			<b>4.41</b>		<b>2.38</b>		<b>11.3</b>		<b>0.15</b>		<b>0.08</b>
	<b>Total for combined furnaces =</b>			<b>8.83</b>		<b>4.75</b>		<b>22.7</b>		<b>0.31</b>		<b>0.15</b>

**\* Note:**

Emission factors for SO<sub>2</sub>, VOC and NO<sub>x</sub> are from FIRE Vol II, Secondary Metal Production- Aluminum Castings (SCC 3-04-001-14).

Emission factor for aluminum fluxing is from FIRE Vol II, Secondary Metal Production - Aluminum: Fluxing/Chlorination (SCC 3-04-001-04)

Emission factors for dross cooling were provided by the source and were developed based on the stack test results for Aluminum Recovery Technologies on September 25-26, 2003 plus safety factors.

**METHODOLOGY**

Maximum throughput (tons/hour) = Maximum throughput (lbs/hour) \* 1 ton/2000 lbs

PTE (tons/year) = Maximum throughput (tons/hour) \* Emission factor (lb/ton) \* 1ton/2000 lbs \* 8760 hours/year

**Appendix A: Emission Calculations  
Summary**

**Company Name:** Intrametco Processing, Inc.  
**Address:** 1901 West Louisiana, Evansville, Indiana 47710  
**MSOP:** 163-18011-00071  
**Reviewer:** ERG/YC  
**Date:** July 23, 2007

**POTENTIAL TO EMIT BEFORE CONTROLS**

<b>Emission Units</b>	<b>PM</b>	<b>PM10</b>	<b>SO<sub>2</sub></b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>* HAP</b>
Furnaces (F# 1 and F#2)	29.1	26.1	0.00	0.00	0.00	0.00	3.93
Aluminum Scrap Shredders	13.1	13.1	0.00	0.00	0.00	0.00	0.00
Sow Molds Casting	8.83	4.75	0.31	0.15	22.7	0.00	0.00
<b>TOTAL</b>	<b>51.1</b>	<b>43.9</b>	<b>0.31</b>	<b>0.15</b>	<b>22.7</b>	<b>0.00</b>	<b>3.93</b>

\* HCl - Hydrogen Chloride

**Indiana Department of Environmental Management  
Office of Air Quality and  
Evansville Environmental Protection Agency (EEPA)**

**Technical Support Document (TSD) for a Minor Source Operating Permit**

**Source Background and Description**

Source Name:	Intrametco Processing, Inc.
Source Location:	1901 West Louisiana, Evansville, Indiana 47710
County:	Vanderburgh
SIC Code:	3341
Operation Permit No.:	163-18011-00071
Permit Reviewer:	ERG/SD

The Office of Air Quality (OAQ) has reviewed an application from Intrametco Processing, Inc. relating to the operation of a stationary secondary aluminum processing plant.

**History**

Intrametco Processing, Inc. is a secondary aluminum processing plant and was operating under City of Evansville Municipal permits (#071-001-001, #071-001-002 and #071-001-004), all of which expired on January 31, 2004. On June 17, 2003 in a letter addressed to the source, the EEPA stated "Currently Intrametco Processing, Inc. holds City of Evansville "Committed Source" level operating permit, which is defined in the Municipal Code of Evansville (MCE) 3.30.196(1) as any facility which has potential emissions greater than 25 tons per year but less than 100 tons per year of any regulated pollutant." EEPA advised the source to obtain a state level operating permit because the permit classification "Committed" is not consistent with Title 326 of the Indiana Administrative Code, Article 2 (326 IAC 2). The Permittee submitted an application for an operating permit on August 4, 2003.

Furthermore, the source is subject to the NESHAP for secondary aluminum production, 40 CFR Part 63, Subpart RRR, which requires that for area sources of HAPs, the Permittee must submit a Part 70 permit application by December 9, 2005.

The Permittee operated one (1) 8.0 MMBtu per hour natural gas-fired Rotary dryer (identified as EU3), with a maximum throughput capacity of 1.75 tons of aluminum scrap per hour, controlled by a cyclone and a 7.5 MMBtu per hour afterburner. This unit, constructed in 1984, was decommissioned effective August 11, 2004. Mr. Derrick Ohning and Ms. Roberta Smith (Compliance Inspectors) visited the plant on August 25, 2004 and confirmed that the rotary dryer was decommissioned on July 29, 2005, when the natural gas fuel line to this unit was disconnected.

**Permitted Emission Units and Pollution Control Equipment**

There are no permitted emission units operating at this source during this review process.

**Unpermitted Emission Units and Pollution Control Equipment**

The source consists of the following unpermitted emission units:

- (a) One (1) electric induction furnace (identified as EU1), classified as a Group 1 furnace,

with a maximum capacity of 1.75 tons of aluminum scrap per hour and 20 pounds of flux per 16,500 pounds of product, controlled by a baghouse (identified as South baghouse 2) and exhausting at stack 1. This unit was constructed in 1981.

- (b) One (1) electric induction furnace (identified as EU2), classified as a Group 1 furnace, with a maximum capacity of 1.75 tons of aluminum scrap per hour and 25 pounds of flux per 16,500 pounds of product, controlled by a baghouse (identified as North baghouse 1) and exhausting at stack 2. This unit was constructed in 1981.
- (c) One (1) scrap shredder (identified as EU4), with a maximum capacity of 3.50 tons of aluminum scrap per hour, controlled by a baghouse (identified as North baghouse 1) and exhausting at stack 2. This unit was constructed in 1981.
- (d) Aluminum sow mold casting operation consisting of a casting operation, pouring/cooling, and a manual knockout process with a maximum throughput rate of 1.75 tons of aluminum per hour. This unit was constructed in 1981.

### Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) City of Evansville Certificate of Operation no. 071-001-001, issued on December 7, 1980.
- (b) City of Evansville Certificate of Operation no. 071-001-002, issued on December 7, 1980.
- (c) City of Evansville Certificate of Operation no. 071-001-004, issued on December 7, 1980.

No conditions from the previous approvals (the Certificate of Operations issued by City of Evansville) were incorporated into this permit.

Reason not incorporated: The source is subject to conditions pursuant to 326 IAC 2-6.1 (MSOP). Therefore, the certificate of operation conditions are no longer applicable.

### Enforcement Issue

- (a) IDEM is aware that equipment has been operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled "Unpermitted Emission Units and Pollution control Equipment".
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the MSOP rules.

### Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (°F)
EU1	Furnace 1	30	2	950	110
EU2	Furnace 2	30	2	950	110

### Recommendation

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on August 4, 2003, with additional information received on August 25, 2003, December 12, 2003, January 13, 2004, and August 11, 2004.

## Emission Calculations

See Appendix A of this document for detailed emission calculations (Appendix A, pages 1 through 4).

## Potential to Emit of the Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential to Emit (tons/year)
PM	99.0
PM10	86.5
SO <sub>2</sub>	0.15
VOC	11.3
CO	0.00
NO <sub>x</sub>	0.08

HAP	Potential to Emit (tons/year)
*PCDD/PCDF	2.30E-07
HCl	3.93

\*Polychlorinated dibenzo p-dioxins and polychlorinated debenzo furans.  
 This source is an area source for HAPs.

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of all criteria pollutants are less than 100 tons per year and the PM and PM10 potential to emit are greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A MSOP will be issued.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination of HAPs is less than twenty-five (25) tons per year. However, this source has been determined to be an area source of HAPs because it emits HCl, dioxins and furans from the furnaces that are regulated under the provision of 40 CFR 63 Subpart RRR.

## County Attainment Status

The source is located in Vanderburgh County.

Pollutant	Status
PM10	Attainment
PM2.5	Non-attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Non-attainment
CO	Attainment
Lead	Attainment

- (a) U.S.EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Vanderburgh County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of non-attainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as surrogate for PM2.5 emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability for the source section.

- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Vanderburgh County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (c) Vanderburgh County has been classified as attainment for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

### Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	99.0
PM10	86.5
SO <sub>2</sub>	0.15
VOC	11.3
CO	0.00
NO <sub>x</sub>	0.08
Single HAP	<10
Combination HAPs	<25

\*This source is an area source for HAPs.

- (a) This existing source is not a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or greater.
- (b) This existing source is not a major source because no attainment regulated pollutant is emitted at a rate of 100 tons per year or greater, and it is in 1 of 28 source categories.
- (c) These emissions were based on the potential to emit calculations for the source (see Appendix A).

### Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This source is subject to the Part 70 Permit requirements because it is subject to the requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart RRR – Secondary Aluminum Production and is an area source of HAPs.

This source shall apply for a Part 70 (Title V) operating permit by December 9, 2005.

### Federal Rule Applicability – 40 CFR 63, Subpart RRR (National Emission Standards of Hazardous Air Pollutants for Secondary Aluminum Production)

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to the two (2) electric induction furnaces (identified as EU1 and EU2) except when otherwise specified in 40 CFR Part 63, Subpart RRR because those furnaces process secondary aluminum scrap and emit dioxins and furans (D/F).

- (a) **Emission Limits and Standards [40 CFR Part 63.1505(i)][40 CFR 63.1505(k)]**
  - (1) For the two (2) electric induction furnaces (identified as EU1 and EU2), the Permittee shall not discharge or allow to be discharged to the atmosphere any 3-

day, 24-hour rolling average emissions of total tetra-, penta-, hexa-, and octachlorinated dibenzo dioxins and furans (D/F) in excess of:

$$L_{CD/F} = \frac{\sum_{i=1}^n (L_{tiD/F} \times T_{ti})}{\sum_{i=1}^n T_{ti}}$$

Where

$L_{tiD/F}$	=	The D/F emission limit for individual emission unit, i, in the secondary processing unit;
$L_{CD/F}$	=	The D/F emission limit for secondary aluminum processing unit;
$T_{ti}$	=	The feed/charge rate for individual emission unit, i

- (2) The D/F emission limit ( $L_{CD/F}$ ) for a Group 1 furnace without an in-line fluxer (Electric induction furnaces EU1 and EU2) at a secondary aluminum production facility shall be limited to 15 micrograms ( $\mu\text{g}$ ) of D/F TEQ per megagram ( $2.1 \times 10^{-4}$  gr of D/F TEQ per ton) of feed/charge, where TEQ is the toxicity equivalents for dioxins and furans as defined in 40 CFR 60.2125 (July 2001).

**(b) Labeling [40 CFR 63.1506(b)]**

The Permittee shall provide and maintain easily visible labels that shall be posted at the two (2) electric induction furnaces (EU1 and EU2). The labels shall identify the applicable emission limits and means of compliance, including:

- (1) The type of affected source or emission unit; and
- (2) The applicable operational standard(s) and control method(s) (work practice or control device). This includes, but is not limited to, the type of charge to be used for a furnace (e.g., clean scrap only, all scrap, etc.), flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in accordance with the paragraph (d).

**(c) Capture and Collection 40 CFR 63.1506(c)]**

The Permittee shall design and install a system for the capture and collection of emissions to meet the engineering standards for minimum exhaust rates as published by the American Conference of Governmental Industrial Hygienists in chapters 3 and 5 of "Industrial Ventilation: A Manual of Recommended Practice" (incorporated by reference: 40 CFR 63.1502). The Permittee shall vent captured emissions through a closed system, except that dilution air may be added to emission streams for the purpose of controlling temperature at the inlet to a fabric filter; and operate each capture/collection system according to the procedures and requirements in paragraph (d).

**(d) Operation, Maintenance, and Monitoring (OMM) plan [40 CFR 63.1510(b)]**

The Permittee shall prepare and implement for the two (2) electric induction furnaces (EU1 and EU2), a written Operation, Maintenance, and Monitoring (OMM) plan. The Permittee shall submit the plan to IDEM, OAQ for review and approval as part of the application for a Part 70 permit. Any subsequent changes to the plan must be submitted to IDEM, OAQ for review and approval. Pending approval by IDEM, OAQ of an initial or amended plan, the Permittee shall comply with the provisions of the submitted plan. Each plan must contain the following information:

- (1) Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device.
- (2) A monitoring schedule for the two (2) electric induction furnaces.
- (3) Procedures for the proper operation and maintenance of the two (2) electric induction furnaces, and each add-on control device used to meet the applicable emission limits or standards in paragraph (a).
- (4) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including: calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions.
- (5) Procedures for monitoring process and control device parameters, including procedures for annual inspections of the control device, and if applicable, the procedure to be used for determining feed/charge (or throughput) weight if a measurement device is not used.
- (6) Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in paragraph (d)(1), including:
  - (A) Procedures to determine and record the cause of a deviation or excursion, and the time the deviation or excursion began and ended; and
  - (B) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.
- (7) A maintenance schedule for each process and control devices that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.

**(e) Testing Requirements [40 CFR 63.1511][40 CFR 63.1512]**

On July 8, 2003, for the two (2) electric induction furnaces (identified as EU1 and EU2), the Permittee performed D/F testing at the outlet of the two (2) baghouses controlling the two (2) electric induction furnaces (EU1 and EU2), using methods as approved by the Commissioner, and in accordance with the requirements in 40 CFR 63, Subpart A. The results of the performance test indicated the furnaces to be in compliance with the emission limits specified in 40 CFR 63.1505(e) (in microgram TEQ per megagram of feed/charge for D/F emissions from each furnace) and shall be used in paragraph (h)(4).

Therefore, the Permittee is not subject to the performance test/compliance demonstration general requirements and procedures as listed in 40 CFR Part 63.1511. Repeat tests are required only for major sources as per 40 CFR 63.1511(e). Intrametco Processing is an area source of HAPs.

**(f) Feed/Charge Weight Determination [40 CFR Part 63.1506(d)]**

- (1) The Permittee shall install and operate a device that measures and records or otherwise determine the weight of feed/charge (or throughput) for each operating cycle or time period used in the performance test; and operate each weight measurement system or other weight determination procedure in accordance with paragraph (d).

- (2) Alternatively, the Permittee may choose to measure and record aluminum production weight from each furnace rather than feed/charge weight to each furnace, provided that:
  - (A) The aluminum production weight, rather than feed/charge weight is measured and recorded for the each emission unit; and
  - (B) All calculations to demonstrate compliance with the emission limits for each electric induction furnace are based on aluminum production weight rather than feed/charge weight.

**(g) Site Specific Requirements for Secondary Aluminum Processing Unit [40 CFR Part 63.1510(s)]**

The Permittee shall include within the OMM plan as given in paragraph (d), the following information:

- (1) The identification of each emission unit in the secondary aluminum processing unit;
- (2) The specific control technology of pollution prevention measure to be used for each emission unit in the secondary aluminum processing unit and the date of its installation or application;
- (3) The emission limit calculated for each secondary aluminum processing unit and performance test result with supporting calculations demonstrating initial compliance with each applicable emission limit;
- (4) Information and data demonstrating compliance for each emission unit with all applicable design equipment work practice or operational standards of Subpart RRR; and
- (5) The monitoring requirements applicable to each furnace in a secondary aluminum processing unit and the monitoring procedures for daily calculation of the 3-day, 24-hour rolling average using methods listed in paragraph (h)(4).
- (6) The SAPU compliance procedures within the OMM plan may not contain any of the following:
  - (A) Any averaging among emissions of differing pollutants;
  - (B) The inclusion of any affected sources other than emission units in a secondary aluminum processing unit;
  - (C) The inclusion of any emission unit while it is shutdown; or
  - (D) The inclusion of any periods of startup, shutdown, or malfunction in emission calculations.

The completion of the initial performance tests for the secondary aluminum processing units shall be considered to be the date of approval of the Operation, Maintenance and Monitoring Plan by IDEM, OAQ [63.1506(a)(2)].

**(h) Monitoring and Compliance Requirements [40 CFR 63.1510]**

- (1) Labeling: The Permittee shall inspect the labels for the two (2) electric induction furnaces (EU1 and EU2) at least once per calendar month to confirm that the posted labels are intact and legible.

- (2) Capture/Collection System: The Permittee shall inspect each capture/collection and closed vent system associated with the two (2) electric induction furnaces (EU1 and EU2) at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in paragraph (c) and record the results of each inspection.
- (3) Feed/Charge: The Permittee shall install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, the two (2) electric induction furnaces over the same operating cycle or time period used in the performance test. Feed/charge or aluminum production within SAPUs must be measured and recorded on an emission unit-by-emission unit basis.

As an alternative to a measurement device, the Permittee may use a procedure acceptable to IDEM, OAQ to determine the total weight of feed/charge or aluminum production to the two (2) electric induction furnaces. The accuracy of the weight measurement device or procedure must be  $\pm 1$  percent of the weight being measured. The Permittee may apply to IDEM, OAQ to use a device of alternative accuracy if the required accuracy cannot be achieved as a result of equipment layout or charging practices. A device of alternative accuracy will not be approved unless the Permittee provides assurance through data and information that the emission units will meet the relevant emission standard given in paragraph (a).

(4) Secondary Aluminum Processing Unit

- (A) The Permittee shall calculate and record the 3-day, 24-hour rolling average emissions of D/F for each furnace on a daily basis as follows:
- (i) Calculate and record the total weight of material charged to each furnace for each 24-hour day of operation using the feed/charge weight data collected as required under paragraph (h)(3);
  - (ii) To provide emissions for each furnace for the 24-hour period, in pounds: multiply the total feed/charge weight to the furnace, for the 24-hour period by the emission rate (in lb/ton of feed/charge) for that furnace (as determined during the performance test);
  - (iii) Divide the total emissions for each furnace for the 24-hour period by the total material changed to the furnace; and
  - (iv) Compute the 24-hour daily emission rate using the equation given below:

$$E_{\text{day}} = \frac{\sum_{i=1}^n (T_i \times ER_i)}{\sum_{i=1}^n T_i}$$

where:

- $E_{\text{day}}$  = The daily D/F emission rate for each furnace for the 24-hour period;
- $T_i$  = The total amount of feed for emission unit  $i$  for the 24-hour period (tons);
- $ER_i$  = The measured emission rate for emission unit  $i$  as determined in the performance test (lb/ton or  $\mu\text{g}/\text{Mg}$  of feed/charge); and

n = The number of furnaces in the secondary aluminum processing unit.

(iii) Calculate and record the 3-day, 24-hour rolling average for each pollutant each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3.

(B) As an alternative to the procedures in paragraph (h)(5) of this Section, the Permittee may demonstrate through performance tests, that each individual furnace is in compliance with paragraph (a).

**(i) Corrective Action [40 CFR 63.1506(p)]**

When a process parameter or the baghouse operating parameter deviates from the value or range established during the performance test and incorporated in paragraph (d), the Permittee shall initiate corrective action. Corrective action must restore operation of the affected source or emission unit (including the process or control device) to its normal or usual mode of operation as expeditiously as practicable in accordance with good air pollution practices for minimizing emissions. Corrective actions taken must include follow-up actions necessary to return the process or control device parameter level(s) to the value or range of values established during the performance test and steps to prevent the likely recurrence of the cause of a deviation.

**(j) Secondary Aluminum Production Record Keeping Requirements [40 CFR Part 63.1517]**

(1) The Permittee shall maintain files of all information (including all reports and notifications) required by the general provisions and Subpart RRR.

(2) The following record keeping conditions apply to the source:

(A) The Permittee shall retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site.

(B) The Permittee may retain records on microfilm, computer disks, magnetic tape, or microfiche; and report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.

(C) In addition to the general records required by 40 CFR 63.10(b), the Permittee must maintain records of:

(i) The number of total operating hours for the affected source or emission unit during each 6-month reporting period, records of each alarm, the time of the alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action(s) taken.

(ii) For the group 1 furnace (electric induction furnaces EU1 and EU2): Records of 15-minute block average weights of gaseous or liquid reactive flux injection, total reactive flux injection rate and calculations (including records of the identity, composition, and weight of each addition of gaseous, liquid or solid reactive flux), including records of any period the rate exceeds the compliant operating parameter value and corrective action taken.

- (D) Feed/charge (or throughput) weights for each operating cycle or time period used in the performance test.
- (E) Monthly inspections for proper unit labeling for the two (2) electric induction furnaces subject to labeling requirements.
- (F) Annual inspections of emission capture/collection and closed vent systems.
- (G) Any approved alternative monitoring or test procedure.
- (H) Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:
  - (i) Startup, Shutdown, and Malfunction plan; and
  - (ii) Site-specific secondary aluminum processing unit emission plan.
- (I) For group 1 furnace, records of total charge weight for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.

**(k) Secondary Aluminum Production Reporting Requirements [40 CFR Part 63.1515] [40 CFR 63.1516]**

- (1) The Permittee shall submit initial notifications to IDEM, OAQ for an area source that subsequently increases its emissions such that source is a major source subject to the standard.
- (2) The Permittee shall provide notification of the anticipated date for conducting the performance tests and visible emission observations. The Permittee shall notify the Commissioner of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.
- (3) The Permittee shall submit a notification of compliance status report within 60 days after the issuance of this permit (compliance dates specified in 40 CFR 63.1501). The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the information specified in paragraphs (a)(1) through (10) of this section. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. In a State with an approved operating permit program where delegation of authority under section 112(l) of the CAA has not been requested or approved, the owner or operator must provide duplicate notification to the applicable Regional Administrator. If the Permittee submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include:
  - (A) All information required in 40 CFR 63.9(h). The Permittee shall provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests).
  - (B) Unit labeling and operating requirements.

- (C) The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value (e.g., lime injection rate, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.
  - (D) Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for capture/collection systems in paragraph (c).
  - (E) An analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems in paragraph (j)(4).
  - (F) Approved OM&M plan as given in paragraph (d).
  - (G) Startup, Shutdown, and Malfunction plan, with revisions.
- (4) The Permittee shall develop and implement a written plan that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The Permittee shall also keep records of each event as required by 40 CFR 63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in 40 CFR 63.6(e)(3). In addition to the information required in 40 CFR 63.6(e)(3), the plan must include:
- (A) Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and
  - (B) Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions.
- (5) The Permittee shall submit semiannual reports within 60 days after the end of each 6-month period. Each report must contain the information specified in 40 CFR 63.10(c). When no deviations of parameters have occurred, the Permittee must submit a report stating that no excess emissions occurred during the reporting period.
- (A) A report must be submitted if any of these conditions occur during a 6-month reporting period:
    - (i) An excursion of a compliant process or operating parameter value or range (e.g., lime injection rate or screw feeder setting, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature, definition of acceptable scrap, or other approved operating parameter).
    - (ii) An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan as described in 40 CFR 63.6(e)(3).
    - (iii) An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of Subpart RRR.

- (iv) A deviation from the 3-day, 24-hour rolling average emission limit for a secondary aluminum processing unit.
- (B) The Permittee shall submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.
- (6) For the purpose of annual certifications of compliance, the Permittee shall certify continuing compliance based upon, but not limited to, the following conditions:
  - (A) Any period of excess emissions, as defined in paragraph (k)(5), that occurred during the year were reported as required by this subpart; and
  - (B) All monitoring, Record keeping, and reporting requirements were met during the year.

There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20, and 40 CFR Part 61 and Part 63) included in this permit.

#### **Federal Rule Applicability – 40 CFR 60, New Source Performance Standards**

There are no New Source Performance Standards (326 IAC 12 and 40 CFR Part 60).

#### **Federal Rule Applicability – 40 CFR 64, Compliance Assurance Monitoring**

This source does not involve a pollutant-specific emissions unit as defined in 40 CFR 64.1:

- (1) With the potential to emit before controls equal to or greater than the major source threshold;
- (2) That is subject to an emission limitation or standard;
- (3) Uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source.

#### **State Rule Applicability – Entire Source**

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

Intrametco Processing, Inc. was constructed in the 1980s and is in one (1) of the twenty-eight (28) categories because this source uses secondary scrap from other sources. At the time the source was constructed, it was a minor source under PSD because the potential to emit of each criteria pollutant before controls was less than the PSD major source threshold of 100 tons per year. The Permittee installed a rotary dryer in 1984. After this modification, the potential to emit of each criteria pollutant was calculated to be below the 100 tons per year PSD threshold. The rotary dryer was de-commissioned from service effective August 11, 2004. Therefore, the source is a minor source under PSD and is not subject to the requirements of 326 IAC 2-2.

##### **326 IAC 2-3 Emission Offset**

Vanderburgh County has been designated as non-attainment for PM 2.5 in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in PM2.5 Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the PM 2.5 major NSR regulations, states should assume that a major stationary source's PM10 emissions represent PM2.5 emissions. IDEM will use the PM10 nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM2.5 NAAQS. A major source in a nonattainment area as a source that emits

or has the potential to emit 100 tons per year of any regulated pollutant. Intrametco Processing, Inc. does not have potential to emit of PM10 greater than 100 tons per year. Therefore, assuming that PM10 emissions represent PM2.5 emissions, 326 IAC 2-3 does not apply.

**326 IAC 2-3 (Emission Offset)**

This source is not a major source under 326 IAC 2-3, because the potential to emit of VOC and NO<sub>x</sub> is less than one hundred (100) tons per year.

**326 IAC 2-6 (Emission Reporting)**

Although the potential to emit of VOC is greater than twenty-five (25) tons per year, this source is not located in Lake or Porter County. Therefore, it is not subject to 326 IAC 2-6 (Emission Reporting). However, this source is required to submit an operating permit under 326 IAC 2-7 (Part 70 Permit Program) by December 9, 2005 because it is subject to the provisions of NESHAP, 40 CFR Part 63, Subpart RRR – Secondary Aluminum Production plant. After December 9, 2005, the Permittee will be subject to the Part 70 Permit requirements and at that time will become subject to the requirements of 326 IAC 2-6 (Emission Reporting).

**326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs))**

This secondary aluminum production plant was constructed prior to the applicability date for the rule (July 27, 1997), is not a major source of HAP, and is now subject to the area source requirements of 40 CFR 63, Subpart RRR. Therefore, the source is not subject to the provisions of 326 IAC 2-4.1.

**326 IAC 5-1 (Opacity Limitations)**

Pursuant to 326 IAC 5-1-1(c), this source is subject to the opacity limitations in 326 IAC 5-1-2(2) because this source is located in the City of Evansville. Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**State Rule Applicability – Electric Induction Furnaces, Scrap Shredder**

**326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the two (2) electric induction furnaces and one (1) scrap shredder shall each be limited as shown below:

Emission Unit	Maximum Throughput Rate		Particulate Emission Limit (lb/hour)
	(lb/hour)	(tons/hour)	
Each of the two (2) electric induction furnaces	3,500	1.75	5.97
Scrap Shredder	7,000	3.50	9.49

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

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

Based on the potential to emit calculations (see Appendix A), the two (2) electric induction furnaces and one (1) scrap shredder are in compliance with this limit and do not require the control equipment to be in operation in order to meet the particulate emission limitations.

**326 IAC 8-1-6 (New Facilities: General Reduction Requirements)**

The two (2) electric induction furnaces and one (1) scrap shredder are not subject to the requirements of 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) because these units do not have potential VOC emissions greater than twenty-five (25) tons per year.

**State Rule Applicability – Sow Molds Casting Operations**

**326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from aluminum casting, pouring/cooling and manual knockout shall not each exceed 5.97 pounds per hour when operating at a process weight rate of 3,500 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

Based on the potential to emit calculations provided in Appendix A, the aluminum casting, pouring/cooling, and manual knockout operations are in compliance with this limit.

**326 IAC 8-1-6 (New Facilities: General Reduction Requirements)**

The sow molds casting operation are not subject to the requirements of 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) because this operation does not have potential VOC emissions greater than twenty-five (25) tons per year.

**Testing Requirements**

- (a) During the period between 30 and 36 months after the issuance of this permit, the Permittee shall perform PM and PM10 testing for the aluminum scrap shredder utilizing methods as approved by the Commissioner. This test shall be reported at least every five (5) years from the date of this valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C- Performance Testing.

Testing is required to demonstrate compliance with 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes).

- (b) Testing requirements pursuant to 40 CFR 63, Subpart RRR are as described in paragraph (e) on page 6 of 14.

**Compliance Requirements**

The compliance monitoring requirements applicable to the source as described below:

- (a) The Permittee shall record the total static pressure drop across the two (2) baghouse stack exhausts daily when the furnaces are in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range of 1.0 and 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

- (b) An inspection shall be performed each calendar quarter of all bags controlling the furnaces when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.
- (c) In the event that bag failure has been observed:
  - (1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 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.
  - (2) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have 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).

## Conclusion

The operation of this secondary aluminum processing plant shall be subject to the conditions of the Minor Source Operating Permit 163-18011-00071.

**Appendix A: Emission Calculations  
PM/PM10 Emissions  
From Two (2) Electric Induction Furnaces (Identified as F#1 and F#2)**

**Company Name:** Intrametco Processing, Inc.  
**Address:** 1901 West Louisiana, Evansville, Indiana 47710  
**MSOP:** 163-18011  
**Pit ID:** 163-00071  
**Reviewer:** ERG/SD  
**Date:** July 18, 2005

Emission Units	Maximum Throughput Rate of Al		* Emission Factor PM (lb/ton)	PTE of PM (tons/year)	* Emission Factor PM10 (lb/ton)	PTE of PM10 (tons/year)	PTE of PM per furnace (lb/hour)	Particulate Emission Limit per furnace (lbs/hour)
	(lb/hour)	(ton/hour)						
Furnace # 1 and # 2	7000	3.50	1.90	29.1	1.70	26.1	3.33	5.97

\* Emission factor is from FIRE Vol II, Chapter 14 - Aluminum (SCC 3-04-001-02 - Smelting Furnace/Crucible).  
Control = Two (2) Baghouses

**METHODOLOGY**

PTE before control (tons/year) = Maximum throughput (tons/hour) \* Emission factor (lb/ton) \* 1ton/2000 lbs \* 8760 hours/year

Process	Actual Usage (lb/year)	Weight % NaCl	Usage Rate NaCl (lb/year)	M.W NaCl	M.W HCl	* PTE HCl (tons/year)	** Emission Rate PCDD/PCDF (g TEQ/ton of Al)	PTE of PCDD/PCDF (tons/year)
Fluxing	7200	0.4	2880	58.44	36.46	3.93	1.05E-04	2.30E-07

\* Assumes worst case scenario in which all NaCl in flux is emitted as HCl.  
\*\* Emission rate based on stack test results conducted on July 10, 2003.  
PCDD/PCDF - Polychlorinated dibenzo p-dioxins and polychlorinated debenzo furans.

**METHODOLOGY**

PTE of HCl (tons/year) = Mol. Wt HCl \* 1/Mol.Wt NaCl \* Usage Rate NaCl (lb/year) \* 1ton/2000 lbs \* 8760 hours/year \* 1/ 2000 hours of operation  
PTE of PCDD/PCDF (tons/year) = Max. Throughput Rate of Al (tons/hour) \* Emission Rate (gr TEQ/ton of Al Processed) \* 1 lb/7000 gr \* 8760 hours/year \* 1 ton/2000 lbs

**Appendix A: Emission Calculations  
PM/PM10 Emissions  
From One (1) Aluminum Scrap Shredder**

**Company Name:** Intrametco Processing, Inc.  
**Address:** 1901 West Louisiana, Evansville, Indiana 47710  
**MSOP:** 163-18011  
**Plt ID:** 163-00071  
**Reviewer:** ERG/SD  
**Date:** July 18, 2005

Emission Unit	Maximum Throughput (tons/hour)	* Emission Factor PM/PM10 (lb/ton)	PTE of PM/PM10		Particulate Emission Limit (lbs/hour)
			(lbs/hour)	(tons/year)	
Shredder	3.50	0.57	2.00	8.74	9.49

\* There are no PM/PM10 emission factors for a scrap shredder. Therefore, PM/PM10 emission factor is taken from a past certificate issued to the source by the Office of Evansville Environmental Protection Agency .

**METHODOLOGY**

PTE of PM/PM10 (lbs/hour) = Maximum Throughput (tons/hour) \* Emission Factor (lb/ton)

PTE of PM/PM10 (tons/year) = Maximum Throughput (tons/hour) \* Emission Factor (lb/ton) \* 8760 hours/year \* 1 ton/2000 lbs

**Appendix A: Emission Calculations**  
**Sow Molds Castings Operations**

**Company Name:** Intrametco Processing, Inc.  
**Address:** 1901 West Louisiana, Evansville, Indiana 47710  
**MSOP:** 163-18011  
**Pit ID:** 163-00071  
**Reviewer:** ERG/SD  
**Date:** July 18, 2005

**POTENTIAL TO EMIT BEFORE CONTROLS IN TONS PER YEAR**

Emission Units	Maximum Throughput		* PM Emission Factor	PTE of PM	* PM10 Emission Factor	PTE of PM10	*VOC Emission Factor	PTE of VOC	*SO <sub>2</sub> Emission Factor	PTE of SO <sub>2</sub>	*NO <sub>x</sub> Emission Factor	PTE of NO <sub>x</sub>
	(lbs/hour)	(tons/hour)	(lbs/ton)	(tons/year)	(lb/ton)	(tons/year)	(lb/ton)	(tons/year)	(lb/ton)	(tons/year)	(lb/ton)	(tons/year)
Aluminum Castings	3500	1.75	NA	negligible	NA	negligible	0.14	1.07	0.02	0.15	0.01	0.08
Aluminum Pouring/Cooling	3500	1.75	4.20	32.2	4.20	32.2	0.14	1.07	NA	0.0	NA	0.0
Alumium Fluxing	2.00	0.001	1000	4.38	532	2.33	0.0	0.00	NA	0.0	NA	0.0
Aluminum Manual Knockout	3500	1.75	3.20	24.5	2.24	17.2	1.2	9.20	NA	0.0	NA	0.0
<b>TOTAL</b>				<b>61.1</b>		<b>51.7</b>		<b>11.3</b>		<b>0.15</b>		<b>0.08</b>

**\* Note:**

There are no PM/PM10 emission factors for aluminum castings. Emission factors for SO<sub>2</sub>, VOC and NO<sub>x</sub> are from FIRE Vol II, Secondary Metal Production- Aluminum Castings (SCC 3-04-001-14).

Emission factor for aluminum pouring/cooling is from FIRE Vol II, Secondary Metal Production - Grey Iron Foundries (SCC 3-04-003-18).

Emission factor for aluminum fluxing is from FIRE Vol II, Secondary Metal Production - Aluminum: Fluxing/Chlorination (SCC 3-04-001-04)

The AP-42 emission factor for knockout is based on a knockout machine. The castings are manually knocked out of molds. Therefore, emissions from this facility are likely to be much less than the values predicted using the AP-42 emission factors.

**METHODOLOGY**

Maximum throughput (tons/hour) = Maximum throughput (lbs/hour) \* 1 ton/2000 lbs

PTE (tons/year) = Maximum throughput (tons/hour) \* Emission factor (lb/ton) \* 1ton/2000 lbs \* 8760 hours/year

**Appendix A: Emission Calculations  
Summary**

**Company Name:** Intrametco Processing, Inc.  
**Address:** 1901 West Louisiana, Evansville, Indiana 47710  
**MSOP:** 163-18011  
**Plt ID:** 163-00071  
**Reviewer:** ERG/SD  
**Date:** July 18, 2005

**POTENTIAL TO EMIT BEFORE CONTROLS**

<b>Emission Units</b>	<b>PM</b>	<b>PM10</b>	<b>SO<sub>2</sub></b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>* HAP</b>
Furnaces (F# 1 and F#2)	29.1	26.1	0.00	0.00	0.00	0.00	3.93
Aluminum Scrap Shredder	8.74	8.74	0.00	0.00	0.00	0.00	0.00
Sow Molds Casting	61.1	51.7	0.15	0.08	11.3	0.00	0.00
<b>TOTAL</b>	<b>99.0</b>	<b>86.5</b>	<b>0.15</b>	<b>0.08</b>	<b>11.3</b>	<b>0.00</b>	<b>3.93</b>

\* HCl - Hydrogen Chloride