KERAMIDA
GLOBAL EHS & SUSTAINABILITY SERVICES

401 North College Avenue
Indianapolis, Indiana 46202
(317) 685-6600 • Fax (317) 685-6610
1-800-508-8034
info@keramida.com • www.keramida.com

069-47993-00085
MAI: 13663

HC

June 24, 2024

Ms. Jenny Acker
Office of Air Quality
Permits Branch
Indiana Department of Environmental Management
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, IN 46204-2251

Re: Administrative Amendment Application
Metal Source, LLC
Plant ID No.: 069-00085

Dear Ms. Acker:

On behalf of Metal Source, LLC, KERAMIDA is submitting the attached FESOP Administrative Amendment for the removal of the thermal chip dryer for the facility located at 1605 and 1625 Riverfork Drive, Huntington, Indiana. The removal of the chip dryer qualifies as an Administrative Amendment pursuant to 326 IAC 2-8-10.

FESOP Administrative Amendment Application
The FESOP Administrative Amendment application package consists of the following documents:

- Air Permit Application Cover Sheet
- GSD-01 Form - Basic Source Level Information
- GSD-15 Form – Government Officials Notified
- FED-01 Form
- Requested changes to current permit
- Emission Calculations

If you have any questions, please contact me at 317-654-5640 or Mike Hough, Gebhardt Holdings at 260-571-1073.

Sincerely,
Keramida Inc.

Kathy Moore

Kathy Moore
Vice President Air Services

Enclosure

AIR PERMIT APPLICATION COVER SHEET

State Form 50639 (R4 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem

NOTES:

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

FOR OFFICE USE ONLY

PERMIT NUMBER:

DATE APPLICATION WAS RECEIVED:

Received
State of Indiana
JUN 27 2024
Dept of Environmental Mgmt
Office of Air Quality

1. Tax ID Number:

PART A: Purpose of Application

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

2. Source / Company Name: Metal Source, LLC | **3. Plant ID:** 069 — 00085

4. Billing Address: 231 W. Canal St.

City: Wabash | **State:** IN | **ZIP Code:** 46992 –

5. Permit Level: ☐ Exemption ☐ Registration ☐ SSOA ☐ MSOP ☒ FESOP ☐ TVOP ☐ PBR

6. Application Summary: *Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.*

☐ Initial Permit ☐ Renewal of Operating Permit ☐ Asphalt General Permit
☐ Review Request ☐ Revocation of Operating Permit ☐ Alternate Emission Factor Request
☐ Interim Approval ☐ Relocation of Portable Source ☐ Acid Deposition (Phase II)
☐ Site Closure ☐ Emission Reduction Credit Registry

☐ Transition (between permit levels) *From:* *To:*

☒ Administrative Amendment: ☐ *Company Name Change* ☒ *Change of Responsible Official*
☐ *Correction to Non-Technical Information* ☐ *Notice Only Change*
☒ *Other (specify):* Removal of equipment

☐ Modification: ☐ *New Emission Unit or Control Device* ☐ *Modified Emission Unit or Control Device*
☐ *New Applicable Permit Requirement* ☐ *Change to Applicability of a Permit Requirement*
☐ *Prevention of Significant Deterioration* ☐ *Emission Offset* ☐ *MACT Preconstruction Review*
☐ *Minor Source Modification* ☐ *Significant Source Modification*
☐ *Minor Permit Modification* ☒ *Significant Permit Modification*
☐ *Other (specify):*

7. Is this an application for an initial construction and/or operating permit for a **"Greenfield" Source**? ☐ Yes ☒ No

8. Is this an application for construction of a new emissions unit at an **Existing Source**? ☐ Yes ☒ No

Continued on Next Page

PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

☒ No ☐ Yes: *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

☒ No ☐ Yes: *Proposed Date for Meeting:*

PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

☒ No ☐ Yes

PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

☒ *I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.*

Mike Hough
Name *(typed)*

Chief Compliance Officer
Title

Signature

6-24-24
Date

OAQ GENERAL SOURCE DATA APPLICATION
GSD-01: Basic Source Level Information

State Form 50640 (R5 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem

NOTES:

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

PART A: Source / Company Location Information

1. **Source / Company Name**: Metal Source, LLC (formerly Huntington Aluminum)
2. **Plant ID**: 069 – 00085
3. **Location Address**: 1605 Riverfork Drive
   City: Huntington | **State**: IN | **ZIP Code**: 46750 –
4. **County Name**: Huntington
5. **Township Name**:
6. **Geographic Coordinates**:
   Latitude: 40.863396 | **Longitude**: -85.523213
7. **Universal Transferal Mercadum Coordinates** *(if known)*:
   Zone: | **Horizontal**: | **Vertical**:
8. **Adjacent States**: Is the source located within 50 miles of an adjacent state?
   ☐ No ☒ Yes – *Indicate Adjacent State(s):* ☐ Illinois (IL) ☐ Michigan (MI) ☒ Ohio (OH) ☐ Kentucky (KY)
9. **Attainment Area Designation**: Is the source located within a non-attainment area for any of the criteria air pollutants?
   ☒ No ☐ Yes – *Indicate Nonattainment Pollutant(s):* ☐ CO ☐ Pb ☐ NO_x ☐ O_3 ☐ PM ☐ PM_{10} ☐ $PM_{2.5}$ ☐ SO_2
10. **Portable / Stationary**: Is this a portable or stationary source? ☐ Portable ☒ Stationary

PART B: Source Summary

11. **Company Internet Address** *(optional)*:
12. **Company Name History**: Has this source operated under any other name(s)?
    ☐ No ☒ Yes – *Provide information regarding past company names in Part I, Company Name History.*
13. **Portable Source Location History**: Will the location of the portable source be changing in the near future?
    ☒ Not Applicable ☐ No ☐ Yes – *Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.*
14. **Existing Approvals**: Have any exemptions, registrations, or permits been issued to this source?
    ☐ No ☒ Yes – *List these permits and their corresponding emissions units in Part M, Existing Approvals.*
15. **Unpermitted Emissions Units**: Does this source have any unpermitted emissions units?
    ☒ No ☐ Yes – *List all unpermitted emissions units in Part N, Unpermitted Emissions Units.*
16. **New Source Review**: Is this source proposing to construct or modify any emissions units?
    ☒ No ☐ Yes – *List all proposed new construction in Part O, New or Modified Emissions Units.*
17. **Risk Management Plan**: Has this source submitted a Risk Management Plan?
    ☒ Not Required ☐ No ☐ Yes → Date submitted: EPA Facility Identifier: – –

Continued on Next Page

PART C: Source Contact Information

IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.

18. Name of Source Contact Person: Mike Hough

19. Title *(optional)*: Chief Compliance Officer

20. Mailing Address: 231 W. Canal St.

City: Wabash	**State**: IN	**ZIP Code**: 46992 –

21. Electronic Mail Address *(optional)*: hough@gebhartholdings.com

22. Telephone Number: (260) 274 – 8565	**23. Facsimile Number** *(optional)*: ( ) –

PART D: Authorized Individual/Responsible Official Information

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Mike Hough

25. Title: Chief Compliance Officer

26. Mailing Address: 231 W. Canal St.

City: Wabash	**State**: IN	**ZIP Code**: 46992 –

27. Telephone Number: (260) 274 – 8565	**28. Facsimile Number** *(optional)*: ( ) –

29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? *The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.*

☐ No ☒ Yes – ***Change Responsible Official to:*** Mike Hough

PART E: Owner Information

30. Company Name of Owner: Gebhart Holdings

31. Name of Owner Contact Person: Mike Hough

32. Mailing Address: 231 W. Canal St.

City: Wabash	**State**: IN	**ZIP Code**: 46992 –

33. Telephone Number: (260) 571 – 1073	**34. Facsimile Number** *(optional)*: ( ) –

34. Operator: Does the "Owner" company also operate the source to which this application applies?

☒ No – *Proceed to Part F below.*	☐ Yes – *Enter "SAME AS OWNER" on line 35 and proceed to Part G below.*

PART F: Operator Information

35. Company Name of Operator: Metal Source, LLC

36. Name of Operator Contact Person: Mike Hough

37. Mailing Address: 231 W. Canal St.

City: Wabash	**State**: IN	**ZIP Code**: 46992 –

38. Telephone Number: (260) 571 – 1073	**39. Facsimile Number** *(optional)*: ( ) –

Continued on Next Page

PART G: Agent Information

40. Company Name of Agent: Keramida Inc.

41. Type of Agent: ☒ Environmental Consultant ☐ Attorney ☐ Other (specify):

42. Name of Agent Contact Person: Kathy Moore

43. Mailing Address: 401 N. College Ave.

City: Indianapolis	**State**: IN	**ZIP Code**: 46202 –

44. Electronic Mail Address *(optional)*: kmoore@keramida.com

45. Telephone Number: (317) 654 – 5640	**46. Facsimile Number** *(optional)*: ( ) –

47. Request for Follow-up: Does the "Agent" wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination? ☐ No ☒ Yes

PART H: Local Library Information

48. Date application packet was filed with the local library: N/A

49. Name of Library:

50. Name of Librarian *(optional)*:

51. Mailing Address:

City:	**State**:	**ZIP Code**: –

52. Internet Address *(optional)*:

53. Electronic Mail Address *(optional)*:

54. Telephone Number: ( ) –	**55. Facsimile Number** *(optional)*: ( ) –

PART I: Company Name History *(if applicable)*

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

56. Legal Name of Company	**57. Dates of Use**
Huntington Aluminum, Inc.	to 4/19/2022
Metal Source, LLC	4/20/2022 to Present
	to
	to
	to
	to
	to
	to
	to
	to

58. Company Name Change Request: Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?

☒ No ☐ Yes – ***Change Company Name to:***

Continued on Next Page

PART J: Portable Source Location History *(if applicable)*

Complete this section only if the source is portable and the location has changed since the previous permit was issued. The current location of the source should be listed in Section A.

59. Plant ID	60. Location of the Portable Source	61. Dates at this Location
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to
–		to

PART K: Request to Change Location of Portable Source *(if applicable)*

Complete this section to request a change of location for a portable source.

62. Current Location:

Address:

City:	**State:**	**ZIP Code:** –

County Name:

63. New Location:

Address:

City:	**State:**	**ZIP Code:** –

County Name:

Continued on Next Page

PART L: Source Process Description

Complete this section to summarize the main processes at the source.

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Aluminum processing operation	Aluminum ngots and sows	3341	

PART M: Existing Approvals *(if applicable)*

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date
40110	Entire Source	10/31/2028
46337	Change in ownership/name change	10/31/2028
46879	Addition of a new thermal chip dryer and aluminum metal shredder	10/31/2028
46879I	Addition of a new thermal chip dryer and aluminum metal shredder	10/31/2028

PART N: Unpermitted Emissions Units *(if applicable)*

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation

PART O: New or Modified Emissions Units *(if applicable)*

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation

OAQ GENERAL SOURCE DATA APPLICATION
GSD-15: Government Officials Notified

State Form 51608 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem

NOTES:

- The purpose of GSD-15 is to identify local government officials that are to be notified that an air permit application has been submitted.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Government Officials Notified

Use this table to identify local government officials that should be notified pursuant to Indiana Code (IC) 13-15-3-1 that an air permit application has been submitted. If you need additional space, you may make copies of this form.

1. Name: Huntington Town Council and Mayors Office		**2. Date Notified**:
3. Title:		
4. Address: 300 Cherry St.		
City: Huntington	**State**: IN	**ZIP Code**: 46750 –
5. Electronic Mail:	**6. Telephone Number**: ( ) -	
7. Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Name: Huntington County Board of Commissioners		**Date Notified**:
Title:		
Address: 201 N. Jefferson St., Suite 103		
City: Huntington	**State**: IN	**ZIP Code**: 46750 –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Name:		**Date Notified**:
Title:		
Address:		
City:	**State**:	**ZIP Code**: –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		
Name:		**Date Notified**:
Title:		
Address:		
City:	**State**:	**ZIP Code**: –
Electronic Mail:	**Telephone Number**: ( ) -	
Method of Notification: ☐ **Telephone** ☐ **Electronic Mail** ☐ **Standard Mail** ☐ **Other** *(specify)*:		

Appendix A: Emission Calculations
Summary of Emissions

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Unlimited Potential to Emit (tons/year)							
Process	**PM**	**PM_{10}**	**$PM_{2.5}$***	**SO_2**	**NO_x**	**VOC**	**CO**
Reverberatory Melt Furnace (Furnace #3)	75.34	45.55	37.84	0.00	0.00	3.50	0.00
Rotary Reverberatory Melt Furnace (Furnace #1)	70.63	42.71	35.48	0.00	0.00	3.29	0.00
Rotary Reverberatory Melt Furnace (Furnace #2)	94.17	56.94	47.30	0.00	0.00	4.38	0.00
Ring Mill Shredder	5.08	5.08	5.08	-	-	-	-
~~Thermal Chip Dryer #1~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~
Fluxing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mold System	0.00	0.00	0.00	1.34	0.67	9.35	0.00
Material Handling	0.09	0.04	0.01	0.00	0.00	0.00	0.00
Ring Mill	1.52	1.52	1.52	0.00	0.00	0.00	0.00
Natural Gas Combustion	0.67	2.68	2.68	0.21	35.27	1.94	29.63
Parts Washer	0.00	0.00	0.00	0.00	0.00	0.14	0.00
Storage Piles	0.27	0.10	0.10	0.00	0.00	0.00	0.00
Paved Roads	1.44	0.29	0.07	0.00	0.00	0.00	0.00
Unpaved Roads	1.24	0.33	0.03	0.00	0.00	0.00	0.00
Total	**250.46**	**155.24**	**130.12**	**1.55**	**35.94**	**22.60**	**29.63**

Potential to Emit after Issuance (tons/year)							
Process	**PM**	**PM_{10}**	**$PM_{2.5}$***	**SO_2**	**NO_x**	**VOC**	**CO**
Reverberatory Melt Furnace (Furnace #3)	33.20	7.40	6.13	0.00	0.00	3.50	0.00
Rotary Reverberatory Melt Furnace (Furnace #1)	7.05	4.29	35.48	0.00	0.00	3.29	0.00
Rotary Reverberatory Melt Furnace (Furnace #2)	9.42	5.69	4.73	0.00	0.00	4.38	0.00
Ring Mill Shredder	5.08	5.08	5.08	-	-	-	-
~~Thermal Chip Dryer #1~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~
Fluxing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mold System	0.00	0.00	0.00	1.34	0.67	9.35	0.00
Material Handling	0.09	0.04	0.01	0.00	0.00	0.00	0.00
Ring Mill	1.52	1.52	1.52	0.00	0.00	0.00	0.00
Natural Gas Combustion	0.67	2.68	2.68	0.21	35.27	1.94	29.63
Parts Washer	0.00	0.00	0.00	0.00	0.00	0.14	0.00
Storage Piles	0.27	0.10	0.10	0.00	0.00	0.00	0.00
Paved Roads	1.44	0.29	0.07	0.00	0.00	0.00	0.00
Unpaved Roads	1.24	0.33	0.03	0.00	0.00	0.00	0.00
Total	**59.99**	**27.43**	**55.84**	**1.55**	**35.94**	**22.60**	**29.63**

*PM2.5 = direct PM2.5
Shaded cells indicates limits

Appendix A: Emission Calculations
Summary of Emissions

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Uncontrolled Potential to Emit (ton/yr)

Process	Chromium	Nickel	Arsenic	Lead	Manganese	Antimony	D/F	HCl	HF	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Cadmium	Total HAPs	Worst-Case HAP
Reverberatory Melt Furnace (Furnace #3)	0.03	0.05	0.01	0.29	2.34	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	2.34 Manganese
Rotary Melt Furnace (Furnace #1)	0.03	0.05	0.01	0.27	2.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68	2.19 Manganese
Rotary Melt Furnace (Furnace #2)	0.04	0.06	0.01	0.36	2.92	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	2.92 Manganese
Thermal Chip Dryer #1	0.00E+00	0.00E+00	--	0.00E+00	0.00E+00	--	4.99E-09	--	0	0.00E+00	0.00E+00	0.00E+00	0.00	0.00E+00	0.00E+00	0.00	0.00 Hexane
Fluxing	0.00	0.00	0.00	0.00	0.00	0.00	3.89E-07	27.38	27.38	0.00	0.00	0.00	0.00	0.00	0.00	54.76	27.38 HCl
Mold System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Material Handling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ring Mill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Combustion	4.94E-04	7.41E-04	0.00	1.76E-04	1.34E-04	0.00	0.00	0.00	0.00	7.41E-04	4.23E-04	0.03	0.63	1.20E-03	0.00	0.67	0.63 Hexane
Parts Washer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paved Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unpaved Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.09**	**0.16**	**0.03**	**0.92**	**7.44**	**0.44**	**3.94E-07**	**27.38**	**27.38**	**0.00**	**0.00**	**0.03**	**0.63**	**0.00**	**0.00**	**64.52**	**27.38 HCl**

Potential to Emit after Issuance (ton/yr)

Process	Chromium	Nickel	Arsenic	Lead	Manganese	Antimony	D/F	HCl	HF	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Cadmium	Total HAPs	Worst-Case HAP
Reverberatory Melt Furnace (Furnace #3)	0.03	0.05	0.01	0.29	2.34	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	2.34 Manganese
Rotary Melt Furnace (Furnace #1)	0.03	0.05	0.01	0.27	2.19	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68	2.19 Manganese
Rotary Melt Furnace (Furnace #2)	0.04	0.06	0.01	0.36	2.92	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	2.92 Manganese
Thermal Chip Dryer #1	0.00E+00	0.00E+00	--	0.00E+00	0.00E+00	--	4.99E-09	--	0.00	0.00E+00	0.00E+00	0.00E+00	0.00	0.00E+00	0.00E+00	0.00	0.00 Hexane
Fluxing	0.00	0.00	0.00	0.00	0.00	0.00	3.89E-07	9.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	<15	9.90 HCl & HF
Mold System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Material Handling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ring Mill	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Combustion	4.94E-04	7.41E-04	0.00	1.76E-04	1.34E-04	0.00	0.00	0.00	0.00	7.41E-04	4.23E-04	0.00	0.63	1.20E-03	0.00	0.64	0.63 Hexane
Parts Washer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paved Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unpaved Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.09**	**0.16**	**0.03**	**0.92**	**7.44**	**0.44**	**3.94E-07**	**9.90**	**9.90**	**0.00**	**0.00**	**0.00**	**0.63**	**0.00**	**0.00**	**<25**	**9.90 HCl**

Shaded cells indicates limits

Appendix A: Emissions Calculations
Reverberatory Melting Furnaces

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Emission Unit	Maximum Capacity (tn/hr)	PM Emission Factor (lb/tn)	PM_{10} Emission Factor (lb/tn)	$PM_{2.5}$ Emission Factor (lb/tn)	VOC Emission Factor (lb/tn)	Uncontrolled PM Potential to Emit (tn/yr)	Uncontrolled PM_{10} Potential to Emit (tn/yr)	Uncontrolled $PM_{2.5}$ Potential to Emit (tn/yr)	Uncontrolled VOC Potential to Emit (tn/yr)	Control Efficiency (%)	Controlled PM Potential to Emit (lb/hr)	Controlled PM Potential to Emit (tn/yr)	Controlled PM_{10} Potential to Emit (lb/hr)	Controlled PM_{10} Potential to Emit (tn/yr)	Controlled $PM_{2.5}$ Potential to Emit (lb/hr)	Controlled $PM_{2.5}$ Potential to Emit (tn/yr)
Furnace #3	4.00	4.30	2.60	2.16	0.20	75.34	45.55	37.84	3.50	90.00%	1.72	7.53	1.04	4.56	0.86	3.78
Furnace #1	3.75	4.30	2.60	2.16	0.20	70.63	42.71	35.48	3.29	90.00%	1.61	7.06	0.98	4.27	0.81	3.55
Furnace #2	5.00	4.30	2.60	2.16	0.20	94.17	56.94	47.30	4.38	90.00%	2.15	9.42	1.30	5.69	1.08	4.73
					Total	**240.13**	**145.20**	**120.63**	**11.17**			**24.01**		**14.52**		**12.06**

Methodology:
Uncontrolled Potential to Emit (ton/yr) = Maximum Capacity (tn/hr) * Emission Factor (lb/tn) * 8760 (hr/yr) / 2000 (lb/tn)
Controlled Potential to Emit = Uncontrolled Potential to Emit (tn/yr) * (1-Control Efficiency (%))

Note:
Emission Factors taken from EPA WebFire (SCC: 30400103)

Appendix A: Emissions Calculations
Reverberatory Melting Furnaces
Metallic HAPs

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Process	Maximum Rate (tn/hr)	PM Emission Factor (lb/tn)	Pollutant	Emission Factor (lb/tn)	Uncontrolled Emissions	Control Efficiency (%)	Controlled Emissions
Melting - Furnace #3 NG Reverberatory Furnace	4.00	4.30	Chromium	0.00163	0.029	90.00%	0.003
			Nickel	0.00288	0.050	90.00%	0.005
			Arsenic	0.00056	0.010	90.00%	0.001
			Lead	0.01656	0.290	90.00%	0.029
			Manganese	0.13330	2.335	90.00%	0.234
			Anitmony	0.00796	0.139	90.00%	0.014
			Worst-Case		**2.34**		**0.23**
			Total		**2.85**		**0.29**
Melting -Furnace #1 NG Reverberatory Furnace	3.75	4.30	Chromium	0.00163	0.027	90.00%	0.003
			Nickel	0.00288	0.047	90.00%	0.005
			Arsenic	0.00056	0.009	90.00%	0.001
			Lead	0.01656	0.272	90.00%	0.027
			Manganese	0.13330	2.189	90.00%	0.219
			Anitmony	0.00796	0.131	90.00%	0.013
			Worst-Case		**2.19**		**0.22**
			Total		**2.68**		**0.27**
Melting - Furnace #2 NG Reverberatory Furnace	5.00	4.30	Chromium	0.00163	0.036	90.00%	0.004
			Nickel	0.00288	0.063	90.00%	0.006
			Arsenic	0.00056	0.012	90.00%	0.001
			Lead	0.01656	0.363	90.00%	0.036
			Manganese	0.13330	2.919	90.00%	0.292
			Anitmony	0.00796	0.174	90.00%	0.017
			Worst-Case		**2.92**		**0.29**
			Total		**3.57**		**0.36**

USEPA Speciate v 3.1 Data	
Metal	Gen. Foundry
Chromium	0.038%
Nickel	0.067%
Arsenic	0.013%
Lead	0.385%
Manganese	3.100%
Anitmony	0.185%

Methodology
Uncontrolled Emissions (tn/yr) = Maximum Capacity (tn/hr) * Emission Factor (lb/tn) * 8760 (hrs/yr) * 2000 (lbs/tn)
Controlled Emissions (tn/yr) = Uncontrolled Emissions (tn/yr) * (1- Control Efficiency (%))

Appendix A: Emissions Calculations
Fluxing

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Process	Maximum Aluminum Throughput (tons/hr)	Maximum Flux Usage (lb flux/ton aluminum)	Maximum Flux Usage (tons/hr)	Limited Flux Usage (tons/yr)	HF Emissions (lb/ton flux)	HCl Emissions (lb/ton flux)*	D/F Emissions (lb/ton flux)*	Uncontrolled HF PTE (tons/yr)	Uncontrolled HCl PTE (tons/yr)	Uncontrolled D/F PTE (tons/yr)	Uncontrolled Total HAPs (tons/yr)	Limited HF PTE (tons/yr)	Limited HCl PTE (tons/yr)	Limited D/F PTE (tons/yr)
Furnace #3 Flux Additions	4.00	600.0	1.20	14,887.22	1.33	1.33	1.89E-08	6.99	6.99	9.94E-08	6.99	9.90	9.90	1.41E-07
Furnace #1 Flux Additions	3.75	800.0	1.50		1.33	1.33	1.89E-08	8.74	8.74	1.24E-07	8.74			
Furnace #2 Flux Additions	5.00	800.0	2.00		1.33	1.33	1.89E-08	11.65	11.65	1.66E-07	11.65			
Total								27.38	27.38	3.89E-07	27.38	9.90	9.90	1.41E-07

Notes:
HCl, Dioxins, and Furans emission rates based on results of stack testing at this source conducted on 11/2/2011.
HCl:
Emission test result: 0.016 (lb HCl/ton aluminum)
Source used 183 pounds of flux during the 3.53 hour stack test (average of 51.84 pounds of flux per hour) and the average aluminum throughput was 2.14 tons per hour.
D/F
Emission test result: 2.00E-10 (lb D/F/ton aluminum)
Source used 183 pounds of flux during the 3.53 hour stack test (average of 51.84 pounds of flux per hour) and the average aluminum throughput was 2.45 tons per hour.

Methodology:
HCl Emissions (lb/ton of flux) = 0.016 (lb HCl/ton Alum) * 2.14 (tons aluminum/hr) / 51.84 (lb flux/hr) * 2,000 (lb/ton)
D/F Emissions (lb/ton of flux) = 2.00E-10 (lb D|F/ton Alum) * 2.45 (tons aluminum/hr) / 51.84 (lb flux/hr) * 2,000 (lb/ton)
Uncontrolled HCl PTE (tons/yr) = Maximum Flux Usage (tons/hr) * HCl Emissions (lb/ton flux) * 8760 (hr/yr) / 2000 (lb/tn)
Uncontrolled D/F PTE (tons/yr) = Maximum Flux Usage (tons/hr) * D/F Emissions (lb/ton flux) * 8760 (hr/yr) / 2000 (lb/tn)
Uncontrolled Total HAPs (tons/yr) = Uncontrolled HCl PTE (tons/yr) + Uncontrolled D/F PTE (tons/yr)
Limited HCl PTE (tons/yr) = Limited Flux Usage (tons/yr) * HCl Emissions (lb/ton flux) / 2000 (lb/tn)
Limited D/F PTE (tons/yr) = Limited Flux Usage (tons/yr) * D/F Emissions (lb/ton flux) / 2000 (lb/tn)
Limited Total HAPs (tons/yr) = Limited HCl PTE (tons/yr) + Limited D/F PTE (tons/yr)

Appendix A: Potential Emission Calculations
Mold System

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Emission Unit	Maximum Capacity (tn/hr)
PM-1	2.50
PM-2	4.00
PM-3	3.75
PM-4	5.00
Total	**15.25**

Emission Unit	PM	PM_{10}	$PM_{2.5}$	SO_2	NO_x	VOC	CO
Emission Factor (lb/tn metal)	0.00	0.00	0.00	0.02	0.01	0.14	0.00
Potential to Emit (tn/yr)	**0.00**	**0.00**	**0.00**	**1.34**	**0.67**	**9.35**	**0.00**

Methodology:
Potential to Emit (tn/yr) = Total Maximum Capacity (tn/yr) * Emission Factor (lb/tn metal) * 8760 (hr/yr) / 2000 (lb/tn)

Note:
Emission factors taken from USEPA WebFIRE (SCC: 30400114)

Appendix A: Potential Emission Calculations
Material Handling

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Batch or Continuous Drop Operations (AP-42 Section 13.2.4)
To estimate potential fugitive dust emissions from processing and handling of raw materials (batch or continuous drop operations),

Ef = k*(0.0032)*[(U/5)^1.3 / (M/2)^1.4]

where: Ef = Emission factor (lb/ton)

k (PM) =	0.74	= particle size multiplier (0.74 assumed for aerodynamic diameter <=100 um)
k (PM10) =	0.35	= particle size multiplier (0.35 assumed for aerodynamic diameter <=10 um)
k (PM2.5) =	0.053	= particle size multiplier (0.053 assumed for aerodynamic diameter <=2.5 um)
U =	10.2	= worst case annual mean wind speed (Source: NOAA, 2006*)
M =	4.0	= material % moisture content of aggregate (Source: AP-42 Section 11.1.1.1)
Ef (PM) =	2.27E-03	lb PM/ton of material handled
Ef (PM10) =	1.07E-03	lb PM10/ton of material handled
Ef (PM2.5) =	1.62E-04	lb PM2.5/ton of material handled

Maximum Material Handling Throughput = 13,140 tons/yr

Type of Activity	Unlimited/Uncontrolled PTE of PM (tons/yr)	Unlimited/Uncontrolled PTE of PM10 (tons/yr)	Unlimited/Uncontrolled PTE of PM2.5 (tons/yr)
Dumping of chips into feed bin	0.01	0.01	1.07E-03
Conveyor dropping material into ring mill	0.01	0.01	1.07E-03
Conveyor dropping material into feed bin #2	0.01	0.01	1.07E-03
Conveyor dropping material into centifuge	0.01	0.01	1.07E-03
Conveyor dropping material into magnetic separator	0.01	0.01	1.07E-03
Total (tons/yr)	**0.07**	**0.04**	**0.01**

Methodology
Unlimited Potential to Emit (tons/yr) = (Maximum Material Handling Throughput (tons/yr)) * (Emission Factor (lb/ton)) * (ton/2000 lbs)
*Worst case annual mean wind speed (Indianapolis, IN) from "Comparative Climatic Data", National Climatic Data Center, NOAA, 2006

Material Screening and Conveying (AP-42 Section 11.19.2)
To estimate potential fugitive dust emissions from raw material conveying, AP-42 emission factors for Crushed Stone Processing

Operation	Uncontrolled Emission Factor for PM (lbs/ton)*	Uncontrolled Emission Factor for PM10 (lbs/ton)*	Unlimited/Uncontrolled PTE of PM (tons/yr)	Unlimited/Uncontrolled PTE of PM10/PM2.5 (tons/yr)**
Conveying	0.003	0.0011	0.02	0.01
Unlimited Potential to Emit (tons/yr) =			**0.02**	**0.01**

Methodology
Unlimited Potential to Emit (tons/yr) = [Maximum Material Handling Throughput (tons/yr)] * [Emission Factor (lb/ton)] * [ton/2000 lbs]
Emission Factors from AP-42 Chapter 11.19.2 (dated 8/04), Table 11.19.2-2
*Uncontrolled emissions factors for PM/PM10 represent tertiary crushing of stone with moisture content ranging from 0.21 to 1.3 percent by weight (Table 11.19.2-2). The bulk moisture content of aggregate in the storage piles at a hot mix asphalt production plant typically stabilizes between 3 to 5 percent by weight (Source: AP-42 Section 11.1.1.1).
**Assumes PM10 = PM2.5

Abbreviations
PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particulate matter (< 2.5 um)
PTE = Potential to Emit

Appendix A: Emissions Calculations
Ring Mill

Company Name: **Metal Source, LLC**
Source Address: **1605 and 1625 Riverfork Drive, Huntington, IN 46750**
Permit Number: **069-46879-00085**
Reviewer: **Deena Levering**

Potential metal charged (tons/hr)

1.5

	PM	PM_{10}	$PM_{2.5}$
Emission Factors (lb/ton metal produced)	0.232	0.232	0.232
Uncontrolled Potential To Emit (lbs/hr)	0.35	0.35	0.35
Uncontrolled Potential To Emit (tons/yr)	**1.52**	**1.52**	**1.52**

Methodology:
Uncontrolled Potential to Emit (ton/yr) = Potential Throughput (ton/hr) x Emission Factor (lb pollutant/ton) x 8760 hr/yr x 1/2000 ton/lb

Note:
Emission factors taken from Institute of Scrap Recycling Industries, Inc. "Title V Applicability Workbook" Appendix D, Table D-10.G.

Appendix A: Emission Calculations
Aluminum Metal Shredding

Company Name: **Metal Source, LLC**
Source Address: **1605 and 1625 Riverfork Drive, Huntington, IN 46750**
Permit Number: **069-46879-00085**
Reviewer: **Deena Levering**

Emission Unit	Maximum Throughput (lbs/hr)	Maximum Throughput (tons/hr)	Emission Factor PM/PM10/PM2.5 * (lb/ton)	Uncontrolled PTE PM/PM10/PM2.5 (lbs/hr)	Uncontrolled PTE PM/PM10/PM2.5 (tons/yr)	Control Efficiency (%)	Controlled PTE PM/PM10/PM2.5 (lb/hr)	Controlled PTE PM/PM10/PM2.5 (lb/hr)
Ring Mill	10,000	5.00	0.232	1.16	5.08	90%	0.12	0.51
				TOTAL	**5.08**			

The controlled emission factor for the Shredder is from the Institute of Scrap Recycling Industries, Inc. "Title V Applicability Workbook" Appendix D, Table D-10.G for mixed scrap. The uncontrolled Particulate Emission Factor is determined by back calculating using 90% efficiency (since the controlled emission factor is after a cyclone). Therefore: Uncontrolled PM Emission Factor = Controlled EF / (1- efficiency) = (0.0232) / (1-0.9) = 0.232 lbs/ton
PM = PM10 = PM2.5

326 IAC 6-3-2 Allowable Emissions (lb/hr)	Control Required
12.05	No

METHOLOGY
Maximum Throughput (tons/hr) = Maximum Throughput (lbs/hr) / 2,000 lb/ton
Potential Emission (lbs/hr) = Emission Factor (lb/ton) * Maximum Capacity (tons/hr)
Potential Emission (tons/year) = Emission Factor (lb/ton) * Maximum Capacity (tons/hr)* 8760 (hrs/year) * 1 ton/2000 lbs
Controlled Emissions (lbs/hr) = Uncontrolled Emissions (lb/hr) / (100% - Control Efficiency)
Controlled Emissions (tons/yr) = Uncontrolled Emissions (tons/yr) / (100% - Control Efficiency)

Appendix A: Unlimited Emissions Calculations
Potential Fugitive Emissions
Material Storage Piles

Company Name: **Metal Source, LLC**
Source Address: **1605 and 1625 Riverfork Drive, Huntington, IN 46750**
Permit Number: **069-46879-00085**
Reviewer: **Deena Levering**

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

Ef = 1.7*(s/1.5)*(365-p)/235*(f/15)
where Ef = emission factor (lb/acre/day)
s = silt content (wt %)
p = 125 days of rain greater than or equal to 0.01 inches
f = 15 % of wind greater than or equal to 12 mph

Material	Silt Content (wt %)*	Emission Factor (lb/acre/day)	Maximum Anticipated Pile Size (acres)	PTE of PM (tons/yr)	PTE of PM10/PM2.5 (tons/yr)
Dross	5.3	6.13	0.11	0.123	0.043
Aluminum Chips (Clean)	4.3	4.98	0.11	0.100	0.035
Aluminum Chips (Oily)	0.7	0.81	0.11	0.016	0.006
Scrap Aluminum Wheels	0.7	0.81	0.11	0.016	0.006
General Scrap	0.7	0.81	0.11	0.016	0.006
			Totals	**0.27**	**0.10**

Abbreviations

PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PTE = Potential to Emit
PM2.5 = Particulate Matter (<2.5 um)

Methodology

PTE of PM (tons/yr) = (Emission Factor (lb/acre/day)) * (Maximum Pile Size (acres)) * (ton/2000 lbs) * (8760 hours/yr)
PTE of PM10 (tons/yr) = (Potential PM Emissions (tons/yr)) * 35%
*Silt content values obtained from AP-42 Table 13.2.4-1 (dated 11/06)

Appendix A: Emissions Calculations
Natural Gas Combustion (≤ 100 MMBtu/hr)
Thermal Chip Dryer #1

Company Name: **Metal Source, LLC**
Source Address: **1605 and 1625 Riverfork Drive, Huntington, IN 46750**
Permit Number: **069-46879-00085**
Reviewer: **Deena Levering**

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
	1020	0.0

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

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

Hazardous Air Pollutants (HAPs)

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Potential Emission of Combined HAPs (tons/yr)	**0.00**	
Potential Emission of Highest Single HAP (tons/yr)	**0.00**	**Hexane**

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

Appendix A: Emissions Calculations
Process Emissons
Thermal Chip Dryer #1

Company Name: **Metal Source, LLC**
Source Address: **1605 and 1625 Riverfork Drive, Huntington, IN 46750**
Permit Number: **069-46879-00085**
Reviewer: **Deena Levering**

Dross and Aluminum Scrap feed (lbs/hr): 0
Nominal Throughput (lbs charge/hr): 0
Nominal Throughput (tons charge/hr):
Control Efficiency (%) 90%

Unlimited PTE

	Uncontrolled Emission Factors (lb/ton)							
Emission Unit	PM	PM10	PM2.5	SO_2	NOx	VOC	CO	D/F
Chip Dryer #1	2.28	2.28	2.28	2.90	0.90	5.30	0.00	4.99E-09

	Uncontrolled Potential to Emit (tons/yr)							
Emission Unit	PM	PM10	PM2.5	SO_2	NOx	VOC	CO	D/F
Chip Dryer #1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00

	Controlled Potential to Emit (tons/yr)							
Emission Unit	PM	PM10	PM2.5	SO_2	NOx	VOC	CO	D/F
Chip Dryer #1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00E+00

PSD Minor Limits

	Limited Throughput	After Issuance Potential to Emit (tons/yr)			
Emission Unit	tons/yr	PM	PM10	PM2.5	VOC
Chip Dryer #1		0.00	0.00	0.00	0.00

326 IAC 6-3-2			
Process Weight Rate (ton/hr) (P)	Rate of Emission (lb/hr) (E)	Uncontrolled PM (lb/hr)	Control Needed to Comply? (Y/N)
0.00	0.00	0	N

Notes
Uncontrolled PM, PM10, PM2.5 and VOC emission factors are proposed by the source.
Uncontrolled Emission Factor for SO2 and Nox from FIRE v.6.23, SCC #3-04-001-09.

Methodology
Uncontrolled PTE (tons/yr) = Nominal Throughput (tons/hr) * Emission Factor (lb/ton) * 8,760 hr/yr * 1 ton/2,000 lbs
Controlled PTE (tons/yr) = Uncontrolled PTE (ton/yr)* (1-CE%)
After Issuance Potential to Emit (tons/yr) = Limited Throughput (tons/yr) * Pollutant Emission Factor (lb/ton) *1ton/2000lb
326 IAC 6-3-2 Rate of Emission (lb/hr) (E) = 4.10*Process Weight Rate (ton/hr) (P) ^ 0.67

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

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Emission Unit	No. of Units	Max. Heat Input Capacity each (MMBtu/hr)	Maximum Heat Input Capacity (MMBtu/hr)
RMF #1	1	8.25	8.25
Eclipse Burner #1	1	7	7.00
Eclipse Burner #2	1	7	7.00
Dry Hearth Burner	1	4	4.00
#1 RRMF	1	20.5	20.50
#2 RRMF	1	28	28.00
CH-1	1	2.2	2.20
SH-1	1	0.2	0.20
SH-2	1	0.2	0.20
SH-3	1	0.195	0.20
SH-4	1	0.32	0.32
SH-5	1	0.25	0.25
FU-1	1	0.06	0.06
FU-2	1	0.1	0.10
FU-3	1	0.08	0.08
FU-4	1	0.096	0.10
FU-5	1	0.096	0.10
Heaters	12	0.3	3.6

Heat Input Capacity MMBtu/hr	HHV mmBtu / mmscf	Potential Throughput MMCF/yr
82.1	1020	705.5

	Pollutant						
Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	direct PM2.5* 7.6	SO2 0.6	NOx 100 **see below	VOC 5.5	CO 84
Potential Emission in tons/yr	0.67	2.68	2.68	0.21	35.27	1.94	29.63

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

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

Hazardous Air Pollutants (HAPs)

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	7.4E-04	4.2E-04	2.6E-02	0.63	1.2E-03	**0.66**

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.8E-04	3.9E-04	4.9E-04	1.3E-04	7.4E-04	**1.9E-03**
					Total HAPs	**0.67**
					Worst HAP	**0.63** **(Hexane)**

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

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
New NG Combustion for #46879

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Emission Unit	No. of units	Max. Heat input capacity each (MMBtu/hr)	Total Maximum Heat Input Capacity (MMBtu/hr)
Heaters	12	0.3	3.6

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
3.6	1020	30.9

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.03	0.12	0.12	0.01	1.55	0.09	1.30

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

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

Hazardous Air Pollutants (HAPs)

	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	**Total - Organics**
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	3.2E-05	1.9E-05	1.2E-03	0.03	5.3E-05	**0.03**

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	**Total - Metals**
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	7.7E-06	1.7E-05	2.2E-05	5.9E-06	3.2E-05	**8.5E-05**
					Total HAPs	**0.03**
					Worst HAP	**0.03** (Hexane)

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

Appendix A: Emissions Calculations
VOC and HAPs
Parts Washer

Company Name: **Metal Source, LLC**
Source Address: **1605 and 1625 Riverfork Drive, Huntington, IN 46750**
Permit Number: **069-46879-00085**
Reviewer: **Deena Levering**

Uncontrolled Potential to Emit VOCs (PTE)							
Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water and Non VOCs	Weight % Organics	Gal. of Material (gal/yr)	Pounds VOC per gallon of coating less water	Potential VOC (tons/yr)
Mirachem 500 Cleaner/Degreaser	6.89	100.00%	0.0%	100.00%	40	6.89	0.14
						Total	**0.14**

METHODOLOGY
Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating less Water (lb/gal) * Gal of Material (gal/yr) * (1 ton/2000 lbs)
Based on MSDS provided by source this product does not contain any HAPs.

Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Paved Roads at Industrial Site
The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Informtation (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Trucks* (entering plant) (one-way trip)	25.0	1.0	25.0	35.0	875.0	325	0.062	1.5	561.7
Trucks* (leaving plant) (one-way trip)	25.0	1.0	25.0	35.0	875.0	325	0.062	1.5	561.7
Cars* (Employees entering plant) (one-way trip)	50.0	1.0	50.0	2.0	100.0	220	0.042	2.1	760.4
Cars* (Employees leaving plant) (one-way trip)	50.0	1.0	50.0	2.0	100.0	220	0.042	2.1	760.4
		Totals	**150.0**		**1950.0**			**7.2**	**2644.2**

Average Vehicle Weight Per Trip = 13.0 tons/trip
Average Miles Per Trip = 0.05 miles/trip

Unmitigated Emission Factor, Ef = [k * (sL)^0.91 * (W)^1.02] (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	13.0	13.0	13.0	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m^2 = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E * [1 - (p/4N)] (Equation 2 from AP-42 13.2.1)
Mitigated Emission Factor, Eext = Ef * [1 - (p/4N)]
where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	1.190	0.238	0.0584	lb/mile
Mitigated Emission Factor, Eext =	1.088	0.218	0.0534	lb/mile

Process	Mitigated PTE of PM (Before Control) (tons/yr)	Mitigated PTE of PM10 (Before Control) (tons/yr)	Mitigated PTE of PM2.5 (Before Control) (tons/yr)
Trucks (entering plant) (one-way trip)	0.31	0.06	0.02
Trucks (leaving plant) (one-way trip)	0.31	0.06	0.02
Cars (Employees entering plant) (one-way trip)	0.41	0.08	0.02
Cars (Employees leaving plant) (one-way trip)	0.41	0.08	0.02
Totals	**1.44**	**0.29**	**0.07**

Methodology
Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip) / [5280 ft/mile]
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (Before Control) (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (After Control) (tons/yr) = [Mitigated PTE (Before Control) (tons/yr)] * [1 - Dust Control Efficiency]

Abbreviations
PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particle Matter (<2.5 um)
PTE = Potential to Emit

Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, IN 46750
Permit Number: 069-46879-00085
Reviewer: Deena Levering

Unpaved Roads at Industrial Site
The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle - Trucks* (entering plant) (one-way trip	25.0	1.0	25.0	35.0	875.0	120	0.023	0.6	207.4
Vehicle - Trucks* (leaving plant) (one-way trip)	25.0	1.0	25.0	35.0	875.0	120	0.023	0.6	207.4
		Totals	**50.0**		**1750.0**			**1.1**	**414.8**

Average Vehicle Weight Per Trip = 35.0 tons/trip
Average Miles Per Trip = 0.02 miles/trip

Unmitigated Emission Factor, Ef = k*[(s/12)^a]*[(W/3)^b] (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	6.0	6.0	6.0	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Iron and Steel Production)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	35.0	35.0	35.0	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E * [(365 - P)/365] (Equation 2 from AP-42 13.2.2)
Mitigated Emission Factor, Eext = E * [(365 - P)/365]
where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	9.11	2.43	0.24	lb/mile
Mitigated Emission Factor, Eext =	5.99	1.60	0.16	lb/mile

Process	Mitigated PTE of PM (Before Control) (tons/yr)	Mitigated PTE of PM10 (Before Control) (tons/yr)	Mitigated PTE of PM2.5 (Before Control) (tons/yr)
Vehicle - Trucks* (entering plant) (one-way trip	0.62	0.17	0.02
Vehicle - Trucks* (leaving plant) (one-way trip)	0.62	0.17	0.02
Totals	**1.24**	**0.33**	**0.03**

Methodology
Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip) / [5280 ft/mile]
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
Mitigated PTE (Before Control) (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
Mitigated PTE (After Control) (tons/yr) = (Mitigated PTE (Before Control) (tons/yr)) * (1 - Dust Control Efficiency)

Abbreviations
PM = Particulate Matter
PM10 = Particulate Matter (<10 um)
PM2.5 = Particulate Matter (<2.5 um)
PTE = Potential to Emit

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Commissioner

Federally Enforceable State Operating Permit Renewal
OFFICE OF AIR QUALITY

Metal Source, LLC
1605 and 1625 Riverfork Drive
Huntington, Indiana 46750

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No.: F069-40110-00085 Master Agency ID: 13663	
Original Signed/Issued by: Heath Hartley, Section Chief Permits Branch Office of Air Quality	Issuance Date: October 31, 2018 Expiration Date: October 31, 2028

Administrative Amendment No.: 069-46337-00085, issued March 10, 2023

Significant Permit Revision No.: 069-46879-00085	
Issued by: Heath Hartley, Section Chief Permits Branch Office of Air Quality	Issuance Date: January 9, 2024 Expiration Date: October 31, 2028

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 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 2-8-3(b)]

The Permittee owns and operates a stationary secondary aluminum processing operation that produces ingots and sows.

Source Address:	1605 Riverfork Drive, Huntington, Indiana 46750 1625 Riverfork Drive, Huntington, Indiana 46750
General Source Phone Number:	(260) 504-2770
SIC Code:	3341 (Secondary Smelting and Refining of Nonferrous Metals)
County Location:	Huntington (Huntington Township)
Source Location Status:	Nonattainment for SO2 standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

(a) Reserved

(b) One (1) natural gas-fired reverberatory melting furnace, identified as Furnace #3 (formerly RMF#2), constructed in 2014, with a maximum capacity of 4.0 tons of scrap aluminum per hour and 600 pounds of flux per ton of aluminum, equipped with two (2) eclipse burners, identified as Eclipse Burner #1 and Eclipse Burner #2, with a maximum heat input capacity of 7.0 MMBtu/hr, each, and one (1) dry hearth burner with a maximum heat input capacity of 4.0 MMBtu/hr, using baghouse BH3 for control, and exhausting to stack S-3.

Under NESHAP 40 CFR 63, Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

(c) One (1) natural gas-fired rotary batch reverberatory melting furnace, identified as Furnace #1 (formerly #1 RRMF), constructed in 2014, with a maximum capacity of 3.75 tons of scrap aluminum and dross per hour and 800 pounds of flux per ton of aluminum, equipped with a high-yield oxy/fuel burner with a maximum heat input capacity of 20.50 MMBtu/hr, using baghouse BH1 for control, and exhausting to stack S-1.

Under NESHAP 40 CFR 63, Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

(d) One (1) natural gas-fired rotary batch reverberatory aluminum melting furnace, identified as Furnace #2 (formerly #2 RRMF), constructed in 2018, with a maximum capacity of 5.0 tons of scrap aluminum and dross per hour and 800 pounds of flux per ton of aluminum, equipped with a high-yield oxy/fuel burner with a maximum heat input capacity of 28.0 MMBtu/hr, using baghouse BH2 for control, and exhausting to stack S-2.

Under NESHAP 40 CFR 63, Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

(e) One (1) permanent mold system, using steel molds without cores, and consisting of the following units:

(1) Reserved.

(2) One (1) aluminum discharge process, identified as PM-3, constructed in 2014, with a maximum capacity of 4.0 tons of aluminum ingots and sows per hour, using no controls, and exhausting indoors.

(3) One (1) aluminum discharge process, identified as PM-1, constructed in 2014, with a maximum capacity of 3.75 tons of sows per hour, using no controls, and exhausting indoors.

(4) One (1) aluminum discharge process, identified as PM-2, constructed in 2018, with a maximum capacity of 5.0 tons of sows per hour, using no controls, and exhausting indoors.

(f) Reserved.

~~(g) One (1) natural gas fired thermal chip dryer, identified as Chip Dryer #1, approved in 2023 for construction, with a maximum capacity of 3.75 tons of scrap aluminum per hour and a maximum heat input capacity of 3.0 MMBtu per hour, using a baghouse BH4 as control, and exhausting to stack S-4.~~

~~Under NESHAP 40 CFR 63, Subpart RRR, the thermal chip dryer is considered a new facility.~~

(h) One (1) aluminum metal shredder, identified as Ring Mill #1, approved in 2023 for construction, with a maximum capacity of 10,000 pounds of aluminum per hour, using a baghouse BH4 as control, and exhausting to stack S-4.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

(a) Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months:

(1) One (1) parts washer, identified as PW1, approved for construction in 2023, with a maximum capacity of 40 gallons, using no controls, and exhausting indoors.

(b) Multiple storage piles, consisting of dross, clean and oily aluminum chips, scrap aluminum wheels, and general foundry scrap, identified as SPD, SPC, SPO, SPW, and SPS, constructed in 2011, using no controls, with exhausting SPD and SPW exhausting outdoors and SPD, SPC, SPO, SPW, and SPS exhausting indoors.

(c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour:

(1) One (1) casting heater, identified as CH-1, constructed in 2011, with a maximum heat input capacity of 2.20 MMBtu/hr, using no controls, and exhausting outdoors.

(2) Two (2) natural gas-fired space heaters, identified as SH-1 and SH-2, constructed in 2011, with a maximum heat input capacity of 0.200 MMBtu/hr, each, using no controls, and exhausting outdoors.

(3) One (1) natural gas-fired space heater, identified as SH-3, constructed in 2011, with a maximum heat input capacity of 0.195 MMBtu/hr, using no controls, and exhausting outdoors.

(4) One (1) natural gas-fired space heater, identified as SH-4, constructed in 2011, with a maximum heat input capacity of 0.320 MMBtu/hr, using no controls, and exhausting outdoors.

(5) One (1) natural gas-fired maintenance shop space heater, identified as SH-5, constructed in 2011, with a maximum heat input capacity of 0.25 MMBtu/hr, using no controls, and exhausting outdoors.

(6) One (1) natural gas-fired furnace for heating the office area, identified as FU-1, constructed in 2011, with a maximum heat input capacity of 0.06 MMBtu/hr, using no controls, and exhausting outdoors.

(7) One (1) natural gas-fired furnace for heating the office area, identified as FU-2, constructed in 2011, with a maximum heat input capacity of 0.10 MMBtu/hr, using no controls, and exhausting outdoors.

(8) One (1) natural gas-fired furnace for heating the office area, identified as FU-3, constructed in 2011, with a maximum heat input capacity of 0.08 MMBtu/hr, using no controls, and exhausting outdoors.

(9) Two (2) natural gas indirect-fired furnaces for heating the warehouse, maintenance shop, and office area, identified as FU-4 and FU-5, permitted in 2016, each with a maximum heat input capacity of 0.096 MMBtu/hr, using no controls, and exhausting outdoors.

(10) Twelve (12) natural gas-fired heaters, each with a maximum capacity of 0.3 MMBtu/hr, permitted in 2023, using no controls and exhausting outdoors.

(d) Paved and unpaved roads.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, F069-40110-00085, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

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

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-8-6][IC 13-17-12]

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

B.5 Severability [326 IAC 2-8-4(4)]

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 [326 IAC 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

(1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and

(2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) The Permittee may use the attached Certification Form, or its equivalent 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 Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

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

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

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

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

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

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

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

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

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

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

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) 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.12 Emergency Provisions [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to F069-40110-00085 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(42). The renewal application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

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

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) and (c) without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b)(1) and (c). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(1) and (c).

(b) Emission Trades [326 IAC 2-8-15(b)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(b).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(c)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

(d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][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, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

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

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

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-8-4(6)][326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-8590 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to

whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-8-4(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 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

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

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 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(c).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(d).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

Compliance Monitoring Requirements [326 IAC 2-8-4(1)][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

(a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
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in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.12 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

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

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.13 Emergency Reduction Plans [326 IAC 1-5-2][326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-8-4][40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4][326 IAC 2-8-5]

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

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

(1) initial inspection and evaluation;

(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records; and/or

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

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.

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

that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]

(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. Support information includes the following, where applicable:

(AA) All calibration and maintenance records.
(BB) All original strip chart recordings for continuous monitoring instrumentation.
(CC) Copies of all reports required by the FESOP.

Records of required monitoring information include the following, where applicable:

(AA) The date, place, as defined in this permit, and time of sampling or measurements.
(BB) The dates analyses were performed.
(CC) The company or entity that performed the analyses.
(DD) The analytical techniques or methods used.
(EE) The results of such analyses.
(FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)][326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(b) One (1) natural gas-fired reverberatory melting furnace, identified as Furnace #3 (formally RMF#2), constructed in 2014, with a maximum capacity of 4.0 tons of scrap aluminum per hour and 600 pounds of flux per ton of aluminum, equipped with two (2) eclipse burners, identified as Eclipse Burner #1 and Eclipse Burner #2, with a maximum heat input capacity of 7.0 MMBtu/hr, each, and one (1) dry hearth burner with a maximum heat input capacity of 4.0 MMBtu/hr, using baghouse BH3 for control, and exhausting to stack S-3.

Under NESHAP 40 CFR 63 Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

(c) One (1) natural gas-fired rotary batch reverberatory melting furnace, identified as Furnace #1 (formally #1 RRMF), constructed in 2014, with a maximum capacity of 3.75 tons of scrap aluminum and dross per hour and 800 pounds of flux per ton of aluminum, equipped with a high-yield oxy/fuel burner with a maximum heat input capacity of 20.50 MMBtu/hr, using baghouse BH1 for control, and exhausting to stack S-1.

Under NESHAP 40 CFR 63 Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

(d) One (1) natural gas-fired rotary batch reverberatory aluminum melting furnace, identified as Furnace #2 (formally #2 RRMF), constructed in 2018, with a maximum capacity of 5.0 tons of scrap aluminum and dross per hour and 800 pounds of flux per ton of aluminum, equipped with a high-yield oxy/fuel burner with a maximum heat input capacity of 28.0 MMBtu/hr, using baghouse BH2 for control, and exhausting to stack S-2.

Under NESHAP 40 CFR 63 Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

Emission Unit	PM Emission Limit (lb/hr)
Furnace #3	7.58
Furnace #1	1.61
Furnace #2	2.15

Compliance with these limits, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than 100 tons per 12 consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.2 FESOP Limits [326 IAC 2-8-4][326 IAC 2-2][326 IAC 2-4.1]

Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

Emission Unit	PM10 (lb/hr)	PM2.5 (lb/hr)
Furnace #3	1.69	1.40
Furnace #1	0.98	--
Furnace #2	1.30	1.08

Compliance with these limits, combined with the potential to emit PM10 and PM2.5, from all other emission units at this source, shall limit the source-wide total potential to emit of PM10 and PM2.5 to less than 100 tons per 12 consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)),

D.1.3 FESOP and HAP Minor Limits [326 IAC 2-8-4][326 IAC 2-4.1]

Pursuant to 326 IAC 2-8-4 (FESOP) and in order to render the requirements of 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)) not applicable, the Permittee shall comply with the following:

(a) The single HAP emissions from the reverberatory aluminum melting furnaces Furnace #3, Furnace #1, and Furnace #2 shall be less than 10 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) The total combined HAP emissions from the reverberatory aluminum melting furnaces Furnace #3, #1, and #2 shall be less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with these limits, combined with the potential to emit HAPs from all other emission units at this source, shall limit the source-wide total potential to emit of any single HAP to less than ten (10) tons per twelve (12) consecutive month period, total HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits), and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP) not applicable, and this source is an area source of HAP emissions under Section 112 of the Clean Air Act (CAA).

D.1.4 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the natural gas-fired reverberatory furnaces shall not exceed the following:

Emission Unit	Control Device	Process Weight (ton/hr)	Limitation (lb/hr)
Furnace #3	BH3	4.00	10.38
Furnace #1	BH1	3.75	9.94
Furnace #2	BH2	5.00	12.05

The pounds per hour limitation was calculated with the following equation:

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

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

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

D.1.5 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-8-4(1)]

D.1.6 Particulate Control

(a) In order to assure compliance with Condition D.1.4, the baghouses for particulate control shall be in operation and control emissions from the natural gas-fired reverberatory furnaces at all times the natural gas-fired reverberatory furnaces 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.1.7 HAP Emission Determination

(a) Compliance with Condition D.1.3(a) shall be determined by calculating the single HAP emissions associated with fluxing from the reverberatory melt furnaces #1, #2, and #3 using the following equation:

Single HAP emissions (tons/month) = $\sum_{m=1}^{12} \frac{Um\ x\ (HAP)}{2000}$

Where:

Single HAP emissions = The single HAP emissions (ton/month) for the reverberatory melt furnaces #1, #2, and #3 when fluxing.

Um = The amount of flux used (tons/month) from reverberatory melt furnaces #1, #2, and #3 during month m (tons/month).

HAP = Hydrogen Chloride or Hydrogen Fluoride emissions (lb/ton of flux) from reverberatory melt furnaces #1, #2, and #3, as determined by the most recent IDEM approved stack test.

m = Each calendar month within the twelve (12) consecutive month period.

(b) Compliance with Condition D.1.3(b) shall be determined by calculating the combined total HAP emissions associated with fluxing from the reverberatory melt furnaces #1, #2, and #3 using the following equation:

Combined HAP (tons/month) = $\sum_{m=1}^{12} \frac{Um\ x\ (HCl+HF)}{2000}$

Where:

Combined HAP = The combined HCl and HF emissions (ton/month) for the reverberatory melt furnaces #1, #2, and #3 when fluxing.

Um = The amount of flux used (tons/month) from reverberatory melt furnaces #1, #2, and #3 during month m (tons/month).

HCl = Hydrogen Chloride emissions (lb/ton of flux) from reverberatory melt furnaces #1, #2, and #3, as determined by the most recent IDEM approved stack test.

HF = Hydrogen Fluoride emissions (lb/ton of flux) from reverberatory melt furnaces #1, #2, and #3, as determined by the most recent IDEM approved stack test.

m = Each calendar month within the twelve (12) consecutive month period.

D.1.8 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

(a) In order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM, PM10, and PM2.5 testing of Furnace #3 and Furnace #1 utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 and PM2.5 includes filterable and condensable PM.

(b) In order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM and PM10 testing of the Furnace #2 utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. PM10 includes filterable and condensable PM.

(c) In order to demonstrate compliance with Condition D.1.3(a) and D.1.7, the Permittee shall perform HCl testing of the natural gas-fired reverberatory furnaces (Furnace #3, Furnace #2, and Furnace #1) utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration.

(d) In order to demonstrate compliance with Condition D.1.3(a) and D.1.7, not later than 180 days after the issuance date of this permit, Permit No. 069-46879-00085, the Permittee shall perform HF testing of the natural gas-fired reverberatory furnaces (Furnace #3, Furnace #2, and Furnace #1), utilizing methods as approved by the Commissioner at least once every 5 years from the date of the most recent valid compliance demonstration.

(e) Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

Compliance Monitoring Requirements [326 IAC 2-8-4(1)][326 IAC 2-8-5(a)(1)]

D.1.9 Bag Leak Detection System (BLDS)

(a) The Permittee shall operate a baghouse leak detection system for Furnace #3, Furnace #1, and Furnace #2 in accordance with 40 CFR part 63.1510(f)(1).

(b) Whenever any of the Bag Leak Detection Systems (BLDS) are malfunctioning or down for repairs or adjustments for a period of twenty-four (24) hours or more during operation of the relevant furnace and a backup BLDS is not online within twenty-four (24) hours of shutdown or malfunction of the primary BLDS, the Permittee shall record the pressure drop across baghouses at least once per day when the associated facility/emissions unit is in operation.

(1) When, for any one reading, the pressure drop across a baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 2.0 and 8.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test.

(2) Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

D.1.10 Broken or Failed Bag Detection

(a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.1.11 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.3(a), D.1.3(b), and D.1.7, the Permittee shall maintain records of the HCl and HF emissions for each month and each compliance period.

(b) To document the compliance status with Condition D.1.9(a) and D.1.9(b), the Permittee shall maintain records as required by 40 CFR 63 Subpart RRR.

(c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the recordkeeping requirements of this requirement.

D.1.12 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.3(a) and D.1.3(b) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meet the requirements of 326 IAC 2-8-5(a)(1) by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months:

(1) One (1) parts washer, identified as PW1, approved for construction in 2023, with a maximum capacity of 40 gallons, using no controls, and exhausting indoors.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Cold Cleaner Degreaser Control Equipment and Operating Requirements [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), the Permittee shall:

(a) Ensure the following control equipment and operating requirements are met:

(1) Equip the degreaser with a cover.

(2) Equip the degreaser with a device for draining cleaned parts.

(3) Close the degreaser cover whenever parts are not being handled in the degreaser.

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).

(6) Store waste solvent only in closed containers.

(7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.

(b) Ensure the following additional control equipment and operating requirements are met:

(1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent used is insoluble in, and heavier than, water.

(C) A refrigerated chiller.

(D) Carbon adsorption.

(E) An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.

(3) If used, solvent spray:

(A) must be a solid, fluid stream; and

(B) shall be applied at a pressure that does not cause excessive splashing.

D.2.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

D.2.3 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)]

D.2.4 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.1, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

(1) The name and address of the solvent supplier.

(2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).

(3) The type of solvent purchased.

(4) The total volume of the solvent purchased.

(5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour:

(2) Two (2) natural gas-fired space heaters, identified as SH-1 and SH-2, constructed in 2011, with a maximum heat input capacity of 0.200 MMBtu/hr, each, using no controls, and exhausting outdoors.

(3) One (1) natural gas-fired space heater, identified as SH-3, constructed in 2011, with a maximum heat input capacity of 0.195 MMBtu/hr, using no controls, and exhausting outdoors.

(4) One (1) natural gas-fired space heater, identified as SH-4, constructed in 2011, with a maximum heat input capacity of 0.320 MMBtu/hr, using no controls, and exhausting outdoors.

(5) One (1) natural gas-fired maintenance shop space heater, identified as SH-5, constructed in 2011, with a maximum heat input capacity of 0.25 MMBtu/hr, using no controls, and exhausting outdoors.

(6) One (1) natural gas-fired furnace for heating the office area, identified as FU-1, constructed in 2011, with a maximum heat input capacity of 0.06 MMBtu/hr, using no controls, and exhausting outdoors.

(7) One (1) natural gas-fired furnace for heating the office area, identified as FU-2, constructed in 2011, with a maximum heat input capacity of 0.10 MMBtu/hr, using no controls, and exhausting outdoors.

(8) One (1) natural gas-fired furnace for heating the office area, identified as FU-3, constructed in 2011, with a maximum heat input capacity of 0.08 MMBtu/hr, using no controls, and exhausting outdoors.

(9) Two (2) natural gas indirect-fired furnaces for heating the warehouse, maintenance shop, and office area, identified as FU-4 and FU-5, permitted in 2016, each with a maximum heat input capacity of 0.096 MMBtu/hr, using no controls, and exhausting outdoors.

(10) Twelve (12) natural gas-fired heaters, each with a maximum capacity of 0.3 MMBtu/hr, permitted in 2023, using no controls and exhausting outdoors.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Particulate Emissions [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from natural gas-fired units shall be limited to 0.60 pounds per MMBtu heat input.

D.3.2 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

~~(g) One (1) natural gas-fired thermal chip dryer, identified as Chip Dryer #1, approved in 2023 for construction, with a maximum capacity of 3.75 tons of scrap aluminum per hour and a maximum heat input capacity of 3.0 MMBtu per hour, using a baghouse BH4 as control, and exhausting to stack S-4.~~

~~Under NESHAP 40 CFR 63, Subpart RRR, the thermal chip dryer is considered a new facility.~~

(h) One (1) aluminum metal shredder, identified as Ring Mill #1, approved in 2023 for construction, with a maximum capacity of 10,000 pounds of aluminum per hour, using a baghouse BH4 as control, and exhausting to stack S-4.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

~~D.4.1 Particulate Matter (PM) [326 IAC 2-2]~~

~~In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:~~

~~(a) The PM, PM10, PM2.5, and VOC emissions from the thermal chip dryer #1 shall not exceed the emission limits listed in the table below:~~

~~Unit ID~~	~~PM Emission Limit (lb/ton)~~
~~Thermal Chip Dryer #1~~	~~2.28~~

~~(b) The amount of aluminum scrap feed shall not exceed 9,360 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.~~

~~Compliance with these limits, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than 100 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.~~

~~D.4.2 FESOP Limits [326 IAC 2-8-4][326 IAC 2-2][326 IAC 8-1-6]~~

~~Pursuant to 326 IAC 2-8-4 (FESOP) and in order to render the requirements of 326 IAC 8-1-6 (VOC BACT) not applicable, the Permittee shall comply with the following:~~

~~(a) PM10, PM2.5, and VOC emissions from the thermal chip dryer #1 shall not exceed the emission limits listed in the table below:~~

~~Unit ID~~	~~PM10 Emission Limit (lb/ton)~~	~~PM2.5 Emission Limit (lb/ton)~~	~~VOC Emission Limit (lb/ton)~~
~~Thermal Chip Dryer #1~~	~~2.28~~	~~2.28~~	~~5.30~~

~~(b) The amount of aluminum scrap feed shall not exceed 9,360 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.~~

~~Compliance with these limits, combined with the potential to emit PM10, PM2.5 and VOC from all other emission units at this source, shall limit the source-wide total potential to emit of PM10, PM2.5 and VOC to less than 100 tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) not applicable.~~

~~Compliance with these limits shall limit the source-wide total potential to emit of VOC to less than 25 tons per twelve (12) consecutive month period and shall render the requirements of 326 IAC 8-1-6 (VOC BACT) not applicable.~~

D.4.3 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the ~~thermal chip dryer #1 and~~ ring mill shredder shall not exceed the following pounds per hour limit when operating at the corresponding process weight rate in tons per hour. The pound 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:

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

Summary of Process Weight Rate Limits		
Process / Emission Unit	P (ton/hr)	E (lb/hr)
~~Thermal Chip Dryer #1~~	~~3.75~~	~~9.94~~
Ring Mill Shredder	5.00	12.05

D.4.4 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

~~Compliance Determination Requirements [326 IAC 2-8-4(1)]~~

~~D.4.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]~~

~~(a) In order to demonstrate compliance with 326 IAC 2-8 (Federally Enforceable State Operating Permit (FESOP)) and Conditions D.4.1(a) and D.4.2(a), not later than 180 days after the startup of the thermal chip dryer, the Permittee shall perform PM, PM10, and PM2.5 testing (before controls) of the thermal chip dryer to verify the PM, PM10, and PM2.5 emission factors, utilizing methods approved by the commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM_{10} and $PM_{2.5}$ includes filterable and condensable PM.~~

~~(b) In order to demonstrate compliance with 326 IAC 2-8 (Federally Enforceable State Operating Permit (FESOP)) and Condition D.4.2(a), not later than 180 days after the startup of the thermal chip dryer, the Permittee shall perform VOC testing of the thermal chip dryer utilizing methods approved by the commissioner at least once every 5 years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.~~

~~Compliance Monitoring Requirements [326 IAC 2-8-4(1)][326 IAC 2-8-5(a)(1)]~~

~~D.4.6 Bag Leak Detection System (BLDS)~~

~~The Permittee shall comply with the following:~~

~~(a) The Permittee shall install and operate a continuous bag leak detection system (BLDS) for baghouse BH4 controlling the thermal chip dryer, in accordance with 40 CFR part 63.1510(f)(1).~~

~~(b) Whenever a BLDS is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more during operation of the thermal chip dryer, the Permittee shall comply with the following:~~

~~(1) Visible emission notations of baghouse BH4 stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.~~

~~(2) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~

~~(3) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.~~

~~(4) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~

~~(5) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.~~

~~Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]~~

~~D.4.7 Record Keeping Requirements~~

~~(a) To document the compliance status with Conditions D.4.1(b) and D.4.2(b), the Permittee shall maintain monthly records of the amount of aluminum scrap feed used in the thermal chip dryer.~~

~~(b) To document the compliance status with Condition D.4.6, the Permittee shall maintain records as required by 40 CFR 63 Subpart RRR.~~

~~(c) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the recordkeeping requirements of this requirement.~~

~~D.4.8 Reporting Requirements~~

~~A quarterly summary of the information to document the compliance status with Conditions D.4.1(b) and D.4.2(b) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meet the requirements of 326 IAC 2-8-5(a)(1) by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

SECTION E.1 **NESHAP**

Emissions Unit Description:

(b) One (1) natural gas-fired reverberatory melting furnace, identified as Furnace #3 (formally RMF#2), constructed in 2014, with a maximum capacity of 4.0 tons of scrap aluminum per hour and 600 pounds of flux per ton of aluminum, equipped with two (2) eclipse burners with a maximum heat input capacity of 7.0 MMBtu/hr, each, and one (1) dry hearth burner with a maximum heat input capacity of 4.0 MMBtu/hr, using baghouse BH3 for control, and exhausting to stack S-3.

Under NESHAP 40 CFR 63 Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

(c) One (1) natural gas-fired rotary batch reverberatory melting furnace, identified as Furnace #1 (formally #1 RRMF), constructed in 2014, with a maximum capacity of 3.75 tons of scrap aluminum and dross per hour and 800 pounds of flux per ton of aluminum, equipped with a high-yield oxy/fuel burner with a maximum heat input capacity of 20.50 MMBtu/hr, using baghouse BH1 for control, and exhausting to stack S-1.

Under NESHAP 40 CFR 63 Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

(d) One (1) natural gas-fired rotary batch reverberatory aluminum melting furnace, identified as Furnace #2 (formally #2 RRMF), constructed in 2018, with a maximum capacity of 5.0 tons of scrap aluminum and dross per hour and 800 pounds of flux per ton of aluminum, equipped with a high-yield oxy/fuel burner with a maximum heat input capacity of 28.0 MMBtu/hr, using baghouse BH2 for control, and exhausting to stack S-2.

Under NESHAP 40 CFR 63 Subpart RRR, the reverberatory furnace is considered a Group 1 Furnace.

~~(g) One (1) natural gas-fired thermal chip dryer, identified as Chip Dryer #1, approved in 2023 for construction, with a maximum capacity of 3.75 tons of scrap aluminum per hour and a maximum heat input capacity of 3.0 MMBtu per hour, using a baghouse BH4 as control, and exhausting to stack S-4.~~

~~Under NESHAP 40 CFR 63, Subpart RRR, the thermal chip dryer is considered a new facility.~~

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-8-4(1)]

E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1][40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.1 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, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart RRR.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

E.1.2 Secondary Aluminum Production NESHAP [40 CFR Part 63, Subpart RRR][326 IAC 20-70]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart RRR (included as Attachment A to the operating permit), which are incorporated by reference as 326 IAC 20-70, for the emission unit(s) listed above:

Reverberatory Furnaces #1 through #3:

(1) 40 CFR 63.1500(a), (c)(4), and (e)
(2) 40 CFR 63.1501(b)
(3) 40 CFR 63.1503
(4) 40 CFR 63.1505(a), (i)(3) and (6), and (k)(3), (5), and (6)
(5) 40 CFR 63.1506(a)(1) and (4), (b)(1) and (2), (c), (d), (m), and (p)
(6) 40 CFR 63.1510(a), (b), (c), (d), (e), (f), (j), (s), (t), (u), and (w)
(7) 40 CFR 63.1511(a), (b), (c), (d), (g)
(8) 40 CFR 63.1512(j), (k), (q), (r), and (s)
(9) 40 CFR 63.1513(b), (d), and (e)
(10) 40 CFR 63.1515
(11) 40 CFR 63.1516
(12) 40 CFR 63.1517
(13) 40 CFR 63.1518
(14) 40 CFR 63.1519
(15) Table 1 to Subpart RRR
(16) Table 2 to Subpart RRR
(17) Table 3 to Subpart RRR
(18) Appendix A to Subpart RRR

~~Thermal Chip Dryer:~~

~~(1) 40 CFR 63.1500(a), (c)(1), (e), and (f)~~
~~(2) 40 CFR 63.1501(e)~~
~~(3) 40 CFR 63.1503~~
~~(4) 40 CFR 63.1505(a), (c)(2)~~
~~(5) 40 CFR 63.1506(a)(1, 4, 5), (b)(1 through 3), (c)(1 through 4), (d)(1 through 3), and (p)~~
~~(6) 40 CFR 63.1510(a)(1, 3, 4, 5, 10), (b), (d), (e), (f)(1), and (w)~~
~~(7) 40 CFR 63.1511(a), (b), (c), (d), and (g)~~
~~(8) 40 CFR 63.1512(b), (k), (o), (q), and (s)~~
~~(9) 40 CFR 63.1513(b)(2), (d), and (f)~~
~~(10) 40 CFR 63.1515(a)(1, 2, 4, 5, 6) and (b)(1, 3, 4, 5, 6)~~
~~(11) 40 CFR 63.1516(b)(1i, iv, vi, vii, 2i, vii, 3, 4), (d), and (e)~~
~~(12) 40 CFR 63.1517(a), (b)(1i, 9, 13, 14, 15, 16ii, 18, 19)~~
~~(13) 40 CFR 63.1518~~
~~(14) 40 CFR 63.1519~~
~~(15) Table 1 to Subpart RRR~~
~~(16) Table 2 to Subpart RRR~~
~~(17) Table 3 to Subpart RRR~~

~~(18) Appendix A to Subpart RRR~~

Compliance Determination Requirements [326 IAC 2-8-4(1)]

E.1.3 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-8-5(a)(1), (4)]

In order to document the compliance status with Condition E.1.2, the Permittee shall perform the testing required under 40 CFR 63, Subpart RRR, utilizing methods as approved by the Commissioner, at least once every five (5) years from the date of the most recent valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Metal Source, LLC
Source Address: 1605 Riverfork Drive, Huntington, Indiana 46750
FESOP Permit No.: F069-40110-00085

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify)_____

☐ Report (specify)_____

☐ Notification (specify)_____

☐ Affidavit (specify)_____

☐ Other (specify)_____

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

Signature:

Printed Name:

Title/Position:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT

Source Name: Metal Source, LLC
Source Address: 1605 Riverfork Drive, Huntington, Indiana 46750
FESOP Permit No.: F069-40110-00085

This form consists of 2 pages **Page 1 of 2**

☐ This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-8-12

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_x, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

FESOP Quarterly Report

Source Name:	Metal Source, LLC
Source Address:	1605 and 1625 Riverfork Drive, Huntington, Indiana 46750
FESOP Permit No.:	F069-40110-00085
Facility:	Three (3) reverberatory aluminum melting furnaces, identified as Furnaces #1 through #3
Parameter:	HCl Emissions
Limit:	The single HAP emissions from the reverberatory aluminum melting furnaces Furnace #3, Furnace #1, and Furnace #2 shall be less than 10 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Single HAP emissions (tons/month) = $\sum_{m=1}^{12} \frac{Um \, x \, (HAP)}{2000}$

Where:

Single HAP emissions = The single HAP emissions (ton/month) for the reverberatory melt furnaces #1, #2, and #3 when fluxing.

Um = The amount of flux used (tons/month) from reverberatory melt furnaces #1, #2, and #3 during month m (tons/month).

HAP = Hydrogen Chloride or Hydrogen Fluoride emissions (lb/ton of flux) from reverberatory melt furnaces #1, #2, and #3, as determined by the most recent IDEM approved stack test.

m = Each calendar month within the twelve (12) consecutive month period.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	HCl HAP emissions (tons) This Month	HCl HAP emissions (tons) Previous 11 Months	HCl HAP emissions (tons) 12 Month Total

☐ No deviation occurred in this quarter.
☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

FESOP Quarterly Report

Source Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, Indiana 46750
FESOP Permit No.: F069-40110-00085
Facility: Three (3) reverberatory aluminum melting furnaces, identified as Furnaces #1 through #3
Parameter: HF Emissions
Limit: The single HAP emissions from the reverberatory aluminum melting furnaces Furnace #3, Furnace #1, and Furnace #2 shall be less than 10 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Single HAP emissions (tons/month) = $\sum_{m=1}^{12} \frac{Um\ x\ (HAP)}{2000}$

Where:
Single HAP emissions = The single HAP emissions (ton/month) for the reverberatory melt furnaces #1, #2, and #3 when fluxing.
Um = The amount of flux used (tons/month) from reverberatory melt furnaces #1, #2, and #3 during month m (tons/month).
HAP = Hydrogen Chloride or Hydrogen Fluoride emissions (lb/ton of flux) from reverberatory melt furnaces #1, #2, and #3, as determined by the most recent IDEM approved stack test.
m = Each calendar month within the twelve (12) consecutive month period.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	HF HAP emissions (tons) This Month	HF HAP emissions (tons) Previous 11 Months	HF HAP emissions (tons) 12 Month Total

☐ No deviation occurred in this quarter.
☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____
Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

FESOP Quarterly Report

Source Name:	Metal Source, LLC
Source Address:	1605 and 1625 Riverfork Drive, Huntington, Indiana 46750
FESOP Permit No.:	F069-40110-00085
Facility:	Three (3) reverberatory aluminum melting furnaces, identified as Furnaces #1 through #3
Parameter:	Combined HAP Emissions
Limit:	The total combined HAP emissions from the reverberatory aluminum melting furnaces Furnace #3, #1, and #2 shall be less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

$$\text{Combined HAP} = \sum_{m=1}^{12} \frac{Um \; x \; (HCl+HF)}{2000}$$

Where:

Combined HCl and HF = The combined HCl and HF emissions (ton/month) for the reverberatory melt furnaces #1, #2, and #3 when fluxing.

Um =	The amount of flux used (tons/month) from reverberatory melt furnaces #1, #2, and #3 during month m (tons/month).
HCl =	Hydrogen Chloride emissions (lb/ton) from reverberatory melt furnaces #1, #2, and #3, as determined by the most recent IDEM approved stack test.
HF =	Hydrogen Fluoride emissions (lb/ton) from reverberatory melt furnaces #1, #2, and #3, as determined by the most recent IDEM approved stack test.
m =	Each calendar month within the twelve (12) consecutive month period.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Combined HAP emissions (tons) This Month	Combined HAP emissions (tons) Previous 11 Months	Combined HAP emissions (tons) 12 Month Total

☐ No deviation occurred in this quarter.
☐ Deviation/s occurred in this quarter.
Deviation has been reported on:_____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

FESOP Quarterly Report

Source Name: Metal Source, LLC
Source Address: 1605 and 1625 Riverfork Drive, Huntington, Indiana 46750
FESOP Permit No.: F069-40110-00085
Facility: Thermal Chip Dryer #1
Parameter: Aluminum Scrap Feed Usage
Limit: The amount of aluminum scrap feed shall not exceed 9,360 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Aluminum Scrap Feed (tons) This Month	Aluminum Scrap Feed (tons) Previous 11 Months	Aluminum Scrap Feed (tons) 12 Month Total

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Metal Source, LLC
Source Address: 1605 Riverfork Drive, Huntington, Indiana 46750
FESOP Permit No.: F069-40110-00085

Months: _____ **to** _____ **Year:** _____

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B -Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C-General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

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