151-48028-00076

AI ID: 122487

METAL PROCESSING

4651 BELLEVUE • DETROIT, MICHIGAN 48207
PHONE (313) 267-2100 • FAX (313) 267-2129
NTERNET: http://www.ajaxmetal.com • E-MAIL: quote@ajaxmetal.com

June 25, 2024
Project No. 240313

ATTN: Incoming Application
IDEM Air Permits Administration
100 North Senate Avenue
MC 61-53, Room 1003
Indianapolis, IN 46204-2251

MSOP Application
Ajax Metal Processing, Inc.
900 South Cassell Street, Fremont, Indiana

Ajax Metal has prepared a Minor Source Operating Permit (MSOP) Application for Ajax Metal Processing located at 900 South Cassell Street, Fremont, Indiana (MSOP No. M151-41179-00076). This MSOP Application includes:

- Signed Air Permit Application Cover Sheet (50639)
- OAQ Air Permit Application – Forms Checklist (51607)
- OAQ General Source Data Application GSD-01: Basic Source Level Information (50640)
- OAQ General Source Data Application GSD-02: Plant Layout Diagram (51605)
- OAQ General Source Data Application GSD-03: Process Flow Diagram (51599)
- OAQ General Source Data Application GSD-04: Stack/Vent Information (51606)
- OAQ General Source Data Application GSD-05: Emissions Unit Information (51610)
- OAQ General Source Data Application GSD-06: Particulate Emissions Summary (51612)
- OAQ General Source Data Application GSD-07: Criteria Pollutant Emissions Summary (51602)
- OAQ General Source Data Application GSD-08: Hazardous Air Pollutant Emissions Summary (51604)
- OAQ General Source Data Application GSD-09: Summary of Additional Information (51611)
- OAQ General Source Data Application GSD-12: Affidavit of Nonapplicability (51600)
- OAQ Process Information Application PI-02A: Combustion Unit Summary (52535)
- OAQ Process Information Application PI-02G: Combustion – Emission Factors (52541)
- OAQ Process Information Application PI-02F: Combustion – Fuel Use (52540)
- OAQ Process Information Application PI-02B: Combustion – Boilers, Process Heaters & Furnaces (52536)
- OAQ Process Information Application PI-02H: Combustion – Federal Rule Applicability (52542)
- Figure 1 Site Plan
- Calculations

IDEM Air Permits Administration
100 North Senate Avenue
MC 61-53, Room 1003
Indianapolis, IN 46204-2251

MSOP Application
Ajax Metal Processing, Inc.
900 South Cassell Street, Fremont, Indiana

There have been no changes to exempt activities of emission units since the 2019 Application. If you have any questions or require additional information, please contact me at 313.267.2101 or fbuono@ajaxmetal.com.

Sincerely,

Frank Buono
President

Attachments
By email
Copy: Stephanie A. Jarrett, PE - Fishbeck

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: 151-48028-00076

DATE APPLICATION WAS RECEIVED:

Received
State of Indiana
JUL 01 2024
Dept of Environmental Mgmt
Office of Air Quality

1. Tax ID Number: [redacted]

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: Ajax Metal Processing, Inc. **3. Plant ID:** 151 – 00076

4. Billing Address: 900 S. Casselle St.

City: Fremont **State:** IN **ZIP Code:** 46737 –

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):*

☒ 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.*

Frank Buono	President
Name *(typed)*	Title
[signature]	6-26-24
Signature	Date

OAQ AIR PERMIT APPLICATION – FORMS CHECKLIST

State Form 51607 (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 this checklist is to help the applicant and IDEM, OAQ ensure that the air permit application packet is administratively complete. This checklist is a required form.
- Check the appropriate box indicating whether each application form is applicable for the current permit application. The source must submit only those forms pertinent to the current permit application.
- Place this checklist between the cover sheet and all subsequent forms and attachments that encompass your air permit application packet.

Part A: General Source Data

Applicable?	Form ID	Title of Form	State Form Number	When should this form be included in my application packet?
☒ Y ☐ N	COVER	Application Cover Sheet	50639	Include for every application, modification, and renewal, including source specific operating agreements (SSOA).
☒ Y ☐ N	CHECKLIST	Forms Checklist	51607	Include for every application, modification, and renewal, including SSOA.
☒ Y ☐ N	GSD-01	Basic Source Level Information	50640	Include for every application, modification, and renewal, including SSOA.
☒ Y ☐ N	GSD-02	Plant Layout Diagram	51605	Include for every new source application, and modification.
☒ Y ☐ N	GSD-03	Process Flow Diagram	51599	Include one for every process covered by the application.
☒ Y ☐ N	GSD-04	Stack / Vent Information	51606	Include for every new source application, and modification.
☒ Y ☐ N	GSD-05	Emissions Unit Information	51610	Include for every process covered by the application.
☒ Y ☐ N	GSD-06	Particulate Emissions Summary	51612	Include if the process has particulate emissions (PM).
☒ Y ☐ N	GSD-07	Criteria Pollutant Emissions Summary	51602	Include if the process has criteria pollutant emissions.
☒ Y ☐ N	GSD-08	HAP Emissions Summary	51604	Include if the process has hazardous air pollutant emissions (HAP).
☒ Y ☐ N	GSD-09	Summary of Additional Information	51611	Include if the additional information is included.
☒ Y ☐ N	GSD-10	Insignificant Activities	51596	Include if there are unpermitted insignificant activities.
☐ Y ☒ N	GSD-11	Alternative Operating Scenario	51601	Include if an AOS is requested.
☒ Y ☐ N	GSD-12	Affidavit of Nonapplicability	51600	Include if the standard notification requirements do not apply.
☐ Y ☒ N	GSD-13	Affidavit of Applicability	51603	Include if the standard notification requirements apply.
☐ Y ☒ N	GSD-14	Owners and Occupants Notified	51609	Include if the standard notification requirements apply.
☐ Y ☒ N	GSD-15	Government Officials Notified	51608	Include if the standard notification requirements apply.
☐ Y ☒ N	RENEWAL	Renewal Checklist	51755	Include with every operating permit renewal packet.

Continued on Next Page

Part B: Process Information				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	AEF-01	Alternate Emission Factor Request	51860	Submit if you are requesting to use an emission factor other than AP-42.
☐ Y ☒ N	PI-01	Miscellaneous Processes	52534	Include one form for each process for which there is not a specific PI form.
☒ Y ☐ N	PI-02A	Combustion Unit Summary	52535	Include one form to summarize all combustion units *(unless SSOA).*
☒ Y ☐ N	PI-02B	*Combustion:* Boilers, Process Heaters, & Furnaces	52536	Include one form for each boiler, process heater, or furnace *(unless SSOA).*
☐ Y ☒ N	PI-02C	*Combustion:* Turbines & Internal Combustion Engines	52537	Include one form for each turbine or internal combustion engine *(unless SSOA).*
☐ Y ☒ N	PI-02D	*Combustion:* Incinerators & Combustors	52538	Include one form for each incinerator or combustor *(unless SSOA).*
☐ Y ☒ N	PI-02E	*Combustion:* Kilns	52539	Include one form for each kiln *(unless SSOA).*
☒ Y ☐ N	PI-02F	*Combustion:* Fuel Use	52540	Include one form for each combustion unit *(unless SSOA).*
☒ Y ☐ N	PI-02G	*Combustion:* Emission Factors	52541	Include one form for each combustion unit *(unless SSOA).*
☒ Y ☐ N	PI-02H	*Combustion:* Federal Rule Applicability	52542	Include one form for each combustion unit *(unless SSOA).*
☐ Y ☒ N	PI-03	Storage and Handling of Bulk Material	52543	Include if the process involves the storage and handling of bulk materials.
☐ Y ☒ N	PI-04	Asphalt Plants	52544	Include for each asphalt plant process (*unless general permit*).
☐ Y ☒ N	PI-05	Brick / Clay Products	52545	Include for each brick and/or clay products process.
☐ Y ☒ N	PI-06	Electroplating Operations	52546	Include for each electroplating process.
☐ Y ☒ N	PI-07	Welding Operations	52547	Include for each welding process.
☐ Y ☒ N	PI-08	Concrete Batchers	52548	Include for each concrete batcher *(unless SSOA).*
☐ Y ☒ N	PI-09	Degreasing	52549	Include for each degreasing process *(unless SSOA).*
☐ Y ☒ N	PI-10	Dry Cleaners	52550	Include for each dry cleaning process
☐ Y ☒ N	PI-11	Foundry Operations	52551	Include for each foundry process
☐ Y ☒ N	PI-12	Grain Elevators	52552	Include for each grain elevator *(unless SSOA).*
☐ Y ☒ N	PI-13	Lime Manufacturing	52553	Include for each lime manufacturing process.
☐ Y ☒ N	PI-14	Liquid Organic Compound Storage	52554 (doc)	Include if the process involves the storage of liquid organic compounds.
☐ Y ☒ N	PI-14ALT	Alternate version of Liquid Organic Compound Storage	52555 (xls)	Include if the process involves the storage of liquid organic compounds and there are several storage vessels.
☐ Y ☒ N	PI-15	Portland Cement Manufacturing	52556	Include for each Portland cement manufacturing process.
☐ Y ☒ N	PI-16	Reinforced Plastics & Composites	52557	Include for each reinforced plastics and composites process.

Continued on Next Page

Part B: Process Information				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	PI-17	Blasting Operations	52558	Include for each blasting process *(unless SSOA).*
☐ Y ☒ N	PI-18	Mineral Processing	52559	Include if the process involves mineral processing *(unless SSOA).*
☐ Y ☒ N	PI-19	Surface Coating & Printing Operations	52560	Include for each surface coating or printing process *(unless SSOA).*
☐ Y ☒ N	PI-20	Woodworking / Plastic Machining	52561	Include for each woodworking or plastic machining process *(unless SSOA).*
☐ Y ☒ N	PI-21	Site Remediation	52570	Include for each soil remediation process.
☐ Y ☒ N	PI-22	Ethanol Plants *(Under Development)*	None	Include for each ethanol plant.

Part C: Control Equipment				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	CE-01	Control Equipment Summary	51904	Include if add-on control equipment will be used for the process.
☐ Y ☒ N	CE-02	Particulates – Baghouse / Fabric Filter	51953	Include for each baghouse or fabric filter.
☐ Y ☒ N	CE-03	Particulates – Cyclone	52620	Include for each cyclone.
☐ Y ☒ N	CE-04	Particulates – Electrostatic Precipitator	52621	Include for each electrostatic precipitator.
☐ Y ☒ N	CE-05	Particulates – Wet Collector / Scrubber / Absorber	52622	Include for each wet collector, scrubber, or absorber.
☐ Y ☒ N	CE-06	Organics – Flare / Oxidizer / Incinerator	52623	Include for each flare, oxidizer, or incinerator.
☐ Y ☒ N	CE-07	Organics – Adsorbers	52624	Include for each adsorber.
☐ Y ☒ N	CE-08	Organics – Condenser	52625	Include for each condenser.
☐ Y ☒ N	CE-09	Reduction Technology	52626	Include for each control device using reduction technology (e.g., SCR, SNCR).
☐ Y ☒ N	CE-10	Miscellaneous Control Equipment	52436	Include one form for equipment for which there is not a specific CE form.

Continued on Next Page

Part D: Compliance Determination for Part 70 Sources				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	CD-01	Emissions Unit Compliance Status	51861	Include for every Title V application, including modifications.
☐ Y ☒ N	CD-02	Compliance Plan by Applicable Requirement	51862	Include for every Title V application, including modifications.
☐ Y ☒ N	CD-03	Compliance Plan by Emissions Unit	51863	Include for every Title V application, including modifications.
☐ Y ☒ N	CD-04	Compliance Schedule and Certification	51864	Include for every Title V application, including modifications and renewal.
☐ Y ☒ N	FED-03	Compliance Assurance Monitoring	53377	Include for every Title V application, including modifications.

Part E: Best Available Control Technology				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	BACT-01	Analysis of Best Available Control Technology	None	Include for every BACT application.
☐ Y ☒ N	BACT-01a	Background Search: Existing BACT Determinations	None	Include for every BACT application.
☐ Y ☒ N	BACT-01b	Cost/Economic Impact Analysis	None	Include for every BACT application.
☐ Y ☒ N	BACT-02	Summary of Best Available Control Technology	None	Include for every BACT application.
☐ Y ☒ N	PSD / EO-01	PSD / Emission Offset Checklist	None	Include for every PSD application and every NSR application that requires emission offsets.

Part F: Emission Credit Registry				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	EC-01	Generation of Emission Credits	51783	Include if the modification results in emission reductions.
☐ Y ☒ N	EC-02	Transfer of Emission Credits	51784	Submit whenever registered emission credits are transferred.
☐ Y ☒ N	EC-03	Use of Emission Credits	51785	Include if the modification requires the use of emission credits for offsets.
☐ Y ☒ N	EC-04	Emission Credit Request	51906	Submit if you are looking for emission credits for offsets.

Continued on Next Page

Part G: Plantwide Applicability Limits				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	PAL-01	Actuals Plantwide Applicability Limit	52451	Include if the modification results in emission reductions.
☐ Y ☒ N	PAL-02	Revised Plantwide Applicability Limit	52452	Submit whenever registered emission credits are transferred.
☐ Y ☒ N	PAL-03	Plantwide Applicability Limit Renewal	52453	Include if the modification requires the use of emission credits for offsets.
☐ Y ☒ N	PAL-04	Request for Termination of Plantwide Applicability Limit	52454	Submit if you are looking for emission credits for offsets.

Part H: Air Toxics				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	FED-01	Summary of Federal Requirements – NSPS & NESHAP	53512	Include for each 40 CFR Part 60 NSPS, 40 CFR Part 61 NESHAP, and 40 CFR Part 63 NESHAP applicable to the process.
☐ Y ☒ N	FED-02	MACT Pre-Construction Review	51905	Include if constructing or modifying a process subject to a Part 63 NESHAP.
☐ Y ☒ N	No Form ID	MACT Initial Notification	None	This form is available on the U.S. EPA website. Completed notifications should be submitted to the IDEM Compliance Branch.

Part I: Special Permits				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	INTERIM	Interim Approval	None	Submit if you are applying for interim operating approval.
☐ Y ☒ N	ASPHALT	Asphalt General Permit	None	Submit if you are applying for or modifying an asphalt plant general permit.
☐ Y ☒ N	NOXBTP	NO_X Budget Permit	None	Submit if you are a power plant or if you have opted in to the NO_X budget trading program.
☐ Y ☒ N	ACIDRAIN	Phase 2 Acid Rain Permit	None	Submit if you are applying for, modifying, or renewing a Phase 2 Acid Rain permit.

Continued on Next Page

Part J: Source Specific Operating Agreements (SSOA)				
Applicable?	**Form ID**	**Title of Form**	**State Form Number**	**When should this form be included in my application packet?**
☐ Y ☒ N	OA-01	Summary of Application and Existing Agreements	53438	Submit if you are applying for or modifying a Source Specific Operating Agreement.
☐ Y ☒ N	OA-02	Industrial / Commercial Surface Coating Operations -OR- Graphic Arts Operations (326 IAC 2-9-2.5)	53439	Submit if you are applying for or modifying a SSOA for industrial or commercial surface coating operations not subject to 326 IAC 8-2; or graphic arts operations not subject to 326 IAC 8-5-5.
☐ Y ☒ N	OA-03	Surface Coating or Graphic Arts Operations (326 IAC 2-9-3)	53440	Submit if you are applying for or modifying a SSOA for surface coating or graphic arts operations.
☐ Y ☒ N	OA-04	Woodworking Operations (326 IAC 2-9-4)	53441	Submit if you are applying for or modifying a SSOA for woodworking operations.
☐ Y ☒ N	OA-05	Abrasive Cleaning Operations (326 IAC 2-9-5)	53442	Submit if you are applying for or modifying a SSOA for abrasive cleaning operations.
☐ Y ☒ N	OA-06	Grain Elevators (326 IAC 2-9-6)	53443	Submit if you are applying for or modifying a SSOA for grain elevators.
☐ Y ☒ N	OA-07	Sand And Gravel Plants (326 IAC 2-9-7)	53444	Submit if you are applying for or modifying a SSOA for sand and gravel plants.
☐ Y ☒ N	OA-08	Crushed Stone Processing Plants (326 IAC 2-9-8)	53445	Submit if you are applying for or modifying a SSOA for crushed stone processing plants.
☐ Y ☒ N	OA-09	Ready-Mix Concrete Batch Plants (326 IAC 2-9-9)	53446	Submit if you are applying for or modifying a SSOA for ready-mix concrete batch plants.
☐ Y ☒ N	OA-10	Coal Mines And Coal Preparation Plants (326 IAC 2-9-10)	53447	Submit if you are applying for or modifying a SSOA for coal mines and coal preparation plants.
☐ Y ☒ N	OA-11	Automobile Refinishing Operations (326 IAC 2-9-11)	53448	Submit if you are applying for or modifying a SSOA for automobile refinishing operations.
☐ Y ☒ N	OA-12	Degreasing Operations (326 IAC 2-9-12)	53449	Submit if you are applying for or modifying a SSOA for degreasing operations.
☐ Y ☒ N	OA-13	External Combustion Sources (326 IAC 2-9-13)	53450	Submit if you are applying for or modifying a SSOA for external combustion sources.
☐ Y ☒ N	OA-14	Internal Combustion Sources (326 IAC 2-9-14)	53451	Submit if you are applying for or modifying a SSOA for internal combustion sources.

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

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

Received
State of Indiana
JUL 01 2024
Dept of Environmental Mgmt
Office of Air Quality

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.

151-48028-00076

PART A: Source / Company Location Information

1. **Source / Company Name**: Ajax Metal Processing, Inc.
2. **Plant ID**: 151 – 00076
3. **Location Address**: 900 S. Casselle St.
   City: Fremont | **State**: IN | **ZIP Code**: 46737 –
4. **County Name**: Steuben
5. **Township Name**: Fremont
6. **Geographic Coordinates**:
   Latitude: 41.72 | **Longitude**: 84.83 W
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: Paul Kemp

19. Title *(optional)*: Plant Manager

20. Mailing Address: 900 Casselle Dr.

City: Fremont	**State**: IN	**ZIP Code**: 46737 –

21. Electronic Mail Address *(optional)*: pkemp@ajaxmetal.com

22. Telephone Number: (260) 495 – 7003	**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: Frank Buono

25. Title: President

26. Mailing Address: 4651 Bellevue St.

City: Detroit	**State**: MI	**ZIP Code**: 48207 –

27. Telephone Number: (260) 495 – 7003	**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:***

PART E: Owner Information

30. Company Name of Owner: Ajax Metal Finishing, Inc.

31. Name of Owner Contact Person: Frank Buono

32. Mailing Address: 4651 Bellevue St.

City: Detroit	**State**: MI	**ZIP Code**: 48207 –

33. Telephone Number: (313) 267 – 2190	**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: SAME AS OWNER

36. Name of Operator Contact Person:

37. Mailing Address:

City:	**State**:	**ZIP Code**: –

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

Continued on Next Page

PART G: Agent Information

40. Company Name of Agent: Fishbeck

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

42. Name of Agent Contact Person: Stephanie Jarrett, P.E.

43. Mailing Address: 39500 MacKenzie Dr., Ste. 100

City: Novi	**State:** MI	**ZIP Code:** 48377 –

44. Electronic Mail Address *(optional)*: sajarrett@fishbeck.com

45. Telephone Number: (248) 324 – 2146	**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:

49. Name of Library: Fremont Public Library

50. Name of Librarian *(optional)*:

51. Mailing Address: 1004 Toledo St.

City: Fremont	**State:** IN	**ZIP Code:** 46737 –

52. Internet Address *(optional)*: fremont.lib.in.us

53. Electronic Mail Address *(optional)*:

54. Telephone Number: (260) 495 – 7157	**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**
	to
	to
	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
Heat treating services	Hardened steel parts	3398	332811

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

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
EU-HARD6	X		Batch hardening line consists of prewash, hardener, temper with total max heat input of 10.7 MMBtu/hr.	11/1/2024	12/31/2024	Q1 2025

OAQ GENERAL SOURCE DATA APPLICATION
GSD-02: Plant Layout Diagram

State Form 51605 (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-02 is to provide a diagram of the entire plant site. This form and a Plant Layout diagram are required for all air permit applications. If you do not provide the necessary information, applicable to your source, the application process may be stopped.
- IDEM, OAQ has provided detailed instructions for this form and an example of a basic plant layout diagram 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: Basic Plant Layout

Part A provides IDEM, OAQ with the appropriate information about all buildings and access-limiting features in and around the plant site. **Please use this table as a checklist.** You must provide scaled drawings, with the actual scale shown. All dimensions and units must be clearly indicated with a brief explanation of what is being shown. Include the following (*All measurements should be given in feet.*):

1.	☒ Building Location and Dimensions				
2.	☒ Property Lines and Access-Limiting Features				
3.	☒ Surrounding Building Location and Dimensions				
4.	☒ Distances to Property Lines and Access-Limiting Features				
5.	☐ UTM Location Coordinates	**6.**	☒ Compass (pointing North)	**7.**	☒ Scale

Part B: Stack Information

Part B provides IDEM, OAQ with the appropriate information about all stacks, roof monitors, control devices, and process vents at the plant site. **Please use this table as a checklist.** You must show the location of all applicable emission points and include all relevant stack and emissions unit identification numbers for each. In addition, you will need to identify each of these emission points under "Stack Identification" on form GSD-04, Stack/Vent Information. Include the following (*All measurements should be in feet.*):

8.	☒ Exhaust Stacks			
9.	☐ Process Vents			
10.	☐ Roof Monitors	☐ *No Roof Monitors*		
11.	☐ Control Devices	☐ *No Control Devices*		
12.	☐ Interior Vents	☐ *No Interior Vents*	☐ Doors and Windows *(for processes vented inside a building)*	

Part C: Roadway Information

Part C provides IDEM, OAQ with the appropriate information about the roadways in and around the plant site. **Please use this table as a checklist.** Include the following (*All measurements should be in feet.*):

13.	☒ Adjacent Roadways	☒ Interior Roadways
14.	☒ Roadway Surface Description (gravel, dirt, paved, etc.)	
15.	☒ Number of Lanes	

Continued on Next Page

Part D: Source Building Information

This table provides detailed information about each building at the plant site that is part of the source. If additional space is needed, you may make a copy of this table. (*All measurements should be given in feet.*)

16. Building ID	17. Building Description	18. Building Dimensions			19. Distance & direction to the nearest property line or access limiting feature (feet & compass coordinate)	20. Distance & direction to the nearest residence (feet & compass coordinate)
		Length (feet)	Width (feet)	Height (feet)		
BLDG-1	Exist heat treat/roll	350.00	600.00	25.00	95.00 ft E	1200.00 ft SE
BLDG-2	Exist heading	500.00	300.00	25.00	65.00 ft W	1060.00 ft WSW
BLDG-3	Office Add	125.00	125.00	12.00	173.00 ft N	1500.00 ft WSW

Continued on Next Page

Part E: Surrounding Building / Residence Information

This table provides detailed information about each building or residence surrounding the plant site. If additional space is needed, you may make a copy of this table. (*All measurements should be given in feet.*)

21. Surrounding Building / Residence Description	22. Surrounding Building / Residence Property Dimensions			23. Distance & direction to the nearest property line or access limiting feature (feet & compass coordinate)	24. Building ID of nearest building on the plant site	25. Distance & direction to the nearest building on the plant site (feet & compass coordinate)
	Length (feet)	Width (feet)	Height (feet)			
General Aluminum Mfg Co.	450.00	200.00		130.00 ft N	303 E. Swager Dr.	240.00 ft N
Swager Communications Inc.	200.00	200.00		330.00 ft NE	501 Swager Dr.	400.00 ft NE
Unknown commercial bldg	200.00	200.00		170.00 ft E	901 S. Casselle	300.00 ft E
Daily Bread Trasnport	40.00	80.00		200.00 ft SE	905 S. Casselle	430.00 ft SE
Cardinal IG	1400.00	220.00		500.00 ft S	301 McSwain Dr.	650.00 ft S
Vacant land				150.00 ft W		
Substation				870.00 ft WNW	E. Swager Dr.	870.00 ft WNW
Four Star Sharpening Services	75.00	30.00		740.00 ft WNW	101 E. Swager Dr.	780.00 ft WNW
Valley Farms Supply	60.00	130.00		400.00 ft NW	203 E. Swager Dr.	470.00 ft NW

Continued on Next Page

Part F: Plant Layout Diagram

This space provides a place for a hand drawn plant layout diagram. It is **optional** to use this space to create your plant layout, but you must include the diagram with your application. If you choose to submit the plant layout in a different format, state "plant layout attached" in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic plant layout diagram on the Air Permit Applications Forms website.

OAQ GENERAL SOURCE DATA APPLICATION
GSD-03: Process Flow Diagram

State Form 51599 (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-03 is to provide a checklist for identifying the information to be included on each Process Flow diagram.
- Complete this form and submit a process flow diagram for each process included in your air permit application.
- IDEM, OAQ has provided detailed instructions for this form and an example of a basic process flow diagram 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: Process Flow Diagram

Part A provides basic information to understanding the nature of the process. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (*All throughputs should be given in pounds per hour.*):

1. ☐ **Process Description:** Heat treating of small steel parts

2. ☒ Process Equipment	3. ☒ Raw Material Input	4. ☒ Process Throughput

5. ☐ Additions ☐ Deletions ☐ Modifications

Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (*If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.*)

Ajax Metal is installing a new Heat Treat Line 6. The line is rated at 6000 lb/hr; and is similar to Heat Treat Line 5.

Part B: Process Operation Schedule

Part B indicates the actual (or estimated actual) hours of operation for the process.

6. ☒ Process Operation Schedule 24 Hours per Day 7 Days per Week 52 Weeks Per Year

7. **Scheduled Downtime:** Use the space below to include as much information as is known about scheduled periods of downtime for this process. (*If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.*)

Heat treat lines are required to be taken out of service and cooled down for certain preventative maintenance activiites. Cool down and re-heat typically require approximately 1 day in addition to the time required to complete the scheduled maintenance activities. As a result, every effort is made to combine as many maintenance activities into a single scheduled downtime as possible. An individual heat treat line is typically scheduled out of service for a total of between 1-2 weeks over the course of a year.

Part C: Emissions Point Information

Part C provides information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (*All throughputs should be given in pounds per hour.*):

8. ☒ Stack / Vent Information
9. ☒ Pollutants Emitted
10. ☒ Air Pollution Control

Continued on Next Page

Part D: Process Flow Diagram

This space provides a place for a hand drawn process flow diagram. It is **optional** to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state "process flow diagram attached" in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram on the Air Permit Applications Forms website.

OAQ GENERAL SOURCE DATA APPLICATION
GSD-04: Stack / Vent Information

State Form 51606 (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 this form is to provide basic information about each stack or vent that has the potential to emit air pollutants. If you do not provide enough information to adequately describe each process vent and/or stack, the application process may be stopped. This form is required for all air permit applications.
- Detailed instructions for this form are available online 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.

Stack / Vent Information

This table provides detailed information about each stack or vent through which air pollutants could be released into the atmosphere. If an air stream is vented inside a building, the vent does not need to be listed on this form. If additional space is needed, you may make a copy of this form.

1. Stack / Vent ID	2. Type (V H W O)	3. Shape (C R O)	4. Outlet Dimensions (feet)	5. Height (feet)	6. Maximum Outlet Flow Rate (acfm)	7. Outlet Gas Temperature (Degrees F)	8. Related Stacks / Vents (B P O)
SV-HT6-PREWH	V	C	0.83	35.00	455.00	500.0	
SV-HT6-HFEH	V	C	1.33	35.00	1391.00	500.0	
SV-HT6-HFR1	V	C	1.00	35.00	789.00	500.0	
SV-HT6-HFL1	V	C	1.00	35.00	947.00	500.0	
SV-HT6-HFR2	V	C	0.83	35.00	581.00	500.0	
SV-HT6-HFL2	V	C	1.00	35.00	947.00	500.0	
SV-HT6-HFR3	V	C	0.83	35.00	543.00	500.0	
SV-HT6-HFL3	V	C	0.83	35.00	592.00	500.0	
SV-HT6-HFL4	V	C	0.67	35.00	394.00	500.0	
SV-HT6-HFEF	V	C	0.67	35.00	348.00	500.0	
SV-HT6-POSTWH	V	C	0.83	35.00	455.00	500.0	
SV-HT6-TMPRENT	V	C	1.67	35.00	2552.00	500.0	
SV-HT6-TMPREXT	V	C	1.67	35.00	1701.00	500.0	

OAQ GENERAL SOURCE DATA APPLICATION
GSD-05: Emissions Unit Information
State Form 51610 (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 this form is to provide basic information about each emissions unit that has the potential to emit air pollutants. This form is required for all air permit applications.
- Detailed instructions for this form are available online 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.

Emissions Unit Information

This table provides detailed information about each emissions unit that has the potential to emit air pollutants to the atmosphere. Accurate information is needed to determine the total potential to emit. If you do not provide enough information to adequately describe each emissions unit, the application process may be stopped. If additional space is needed, you may make a copy of this form.

1. Unit ID	2. Model Number	3. Serial Number	4. Description	5. Manufacturer	6. Installation Date	7. Maximum Capacity	8. Stack / Vent ID
EU-HT6			Natural gas-fied pre-washer	Can-Eng Furnaces Intrnl, Ltd		6000.00 lb/hr	SV-HT6-PREWH
EU-HT6			Natural gas-fired atmospheric hardening furnace	Can-Eng Furnaces Intrnl, Ltd		6000.00 lb/hr	SV-HT6-FH
EU-HT6							SV-HT6-HFR1
EU-HT6							SV-HT6-HFL1
EU-HT6							SV-HT6-HFR2
EU-HT6							SV-HT6-HFL2
EU-HT6							SV-HT6-HFR3
EU-HT6							SV-HT6-HFL3
EU-HT6							SV-HT6-FHL4
EU-HT6			Quench				SV-HT6-HFEF
EU-HT6			Natural gas-fied post-washer	Can-Eng Furnaces Intrnl, Ltd		6000.00 lb/hr	SV-HT6-POSTWH
EU-HT6			Natural gas-fired temper furnace	Can-Eng Furnaces Intrnl, Ltd		6000.00 lb/hr	SV-HT6-TMPRENT
EU-HT6							SV-HT6-TMPREXT

OAQ GENERAL SOURCE DATA APPLICATION
GSD-06: Particulate Emissions Summary

State Form 51612 (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 this form is to provide basic information about each source of particulate emissions. This form is required for all air permit applications.
- 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: Particulate Matter Emissions

Part A provides a summary of the type and amount of particulate emissions at the source. The state rules on particulate emissions are found in Title 326 of the Indiana Administrative Code, Article 6, Particulate Rules. If you do not provide enough information to adequately describe each source of particulate emissions, the application process may be stopped. If additional space is needed, you may make a copy of this table.

Emissions Point		**Potential To Emit** (tons per year)						
1. ID	**2. Description**	**3. PM**	**4. PM-10**	**5. PM-2.5**	**6. TSP**	**7. Fugitive Dust**	**8. Fugitive PM**	**9. HAP PM**
EU-HT6	Products of NG combustion from heat treat line	0.10	0.35	0.35				0.00

Continued on Next Page

Part B: Control of Particulate Emissions

Part C gathers information about how each source of particulate emissions is controlled. If you do not provide enough information to adequately describe how each source of particulate emissions is controlled, the application process may be stopped. If additional space is needed, you may make a copy of this table.

10. Emissions Point ID	11. Control Measure	12. Control Measure Description	13. Control Plan
SV-HT6-HFR1-3, SV-HT1-HFL1-4	☐ No Control ☐ Dust Suppression ☒ Other: Combustion controls	Hardening furnace equipped with recuperative burners, gooc natural gas combustion control, and burner maintenance	☐ Yes ☐ No Date Submitted: ______
	☐ No Control ☐ Dust Suppression ☐ Other: ______		☐ Yes ☐ No Date Submitted: ______
	☐ No Control ☐ Dust Suppression ☐ Other: ______		☐ Yes ☐ No Date Submitted: ______
	☐ No Control ☐ Dust Suppression ☐ Other: ______		☐ Yes ☐ No Date Submitted: ______
	☐ No Control ☐ Dust Suppression ☐ Other: ______		☐ Yes ☐ No Date Submitted: ______
	☐ No Control ☐ Dust Suppression ☐ Other: ______		☐ Yes ☐ No Date Submitted: ______
	☐ No Control ☐ Dust Suppression ☐ Other: ______		☐ Yes ☐ No Date Submitted: ______
	☐ No Control ☐ Dust Suppression ☐ Other: ______		☐ Yes ☐ No Date Submitted: ______

Air Permitting Rules 326 IAC 6-4 and 326 IAC 6-5 require fugitive dust to be controlled as needed to prevent dust from visibly crossing property lines. Parts C and D summarize sources of fugitive particulate emissions from process operations and unpaved roads.

PART C: Fugitive Dust *(if applicable)*

Part C identifies measures implemented for controlling fugitive particulate emissions from process operations and unpaved roads.

14. Dust Control Plans: *Check all that apply.*

15. Control Measures:

☐ Conveying:	☐ Wet	☐ Dry
☐ Stock Piles:	☐ Open	☐ Covered
☐ Unpaved Roads: *Watered?*	☐ Yes	☐ No
☐ Other *(specify)*:		
☐ Other *(specify)*:		
☐ Other *(specify)*:		

PART D: Vehicular Traffic on Unpaved Roads *(if applicable)*

Part D gathers information on vehicular traffic patterns when the site contains unpaved roads. All data should be provided assuming peak hours of vehicular traffic. Two one-way trips equal one round trip. For external traffic (vehicles entering and leaving the property lines), the distance from the plant to the property line is the one-way trip distance.

16. Average Silt Content of Unpaved Roads:

17. Vehicle Description	18. Max. No. round trips at peak hours (trips/hr)	19. Distance of one-way trip (miles/trip)	20. Max. vehicle speed (mph)	21. Max. gross vehicle weight *(fully loaded)* (tons)	22. Tare weight (tons)	23. No. of wheels on vehicle (wheels)

OAQ GENERAL SOURCE DATA APPLICATION
GSD-07: Criteria Pollutant Emissions Summary

State Form 51602 (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 this form is to provide the actual and potential emissions of each criteria pollutant emitted from the source. This form is required for all air permit applications.
- 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: Unit Emissions Summary

Part A provides the actual and potential emissions of each criteria pollutant emitted from each emissions unit. If you do not provide enough information to adequately describe the emissions from each emissions unit, the application process may be stopped.

1. Unit ID	2. Stack / Vent ID	3. Criteria Pollutant	4. Actual Emissions		5. Potential To Emit	
			Standard Units	Tons Per Year	Standard Units	Tons Per Year
EU-HT6	All combined	VOC				0.25
		NOx				4.60
		CO				3.90
		SO2				0.03
		PM				0.10
		PM10				0.35
		PM2.5				0.35
		Pb				2.3E-5

Continued on Next Page

Part B: Pollutant Emissions Summary

Part B provides the total actual and potential emissions of each criteria pollutant emitted from the source (including all emissions units and fugitive emissions at the source). If you do not provide enough information to adequately describe the total source emissions, the application process may be stopped.

6. Criteria Pollutant	7. Actual Emissions		8. Potential To Emit	
	Standard Units	Tons Per Year	Standard Units	Tons Per Year
Carbon Monoxide (CO)		18.00		22.70
Lead (Pb)		0.00		0.00
Nitrogen Oxides (NO_X)		22.00		27.10
Particulate Matter (PM)		0.41		0.51
Particulate Matter less than 10μm (PM_{10})		1.60		2.10
Particulate Matter less than 2.5μm ($PM_{2.5}$)		1.60		2.10
Sulfur Dioxide (SO_2)		0.13		0.16
Volatile Organic Compounds (VOC)		1.20		1.5
Other *(specify)*:				

Part C: Fugitive VOC Emissions *(if applicable)*

Part C summarizes the sources of fugitive VOC emissions at the source and estimates VOC emissions from these emission points. Complete this table if you are required to provide fugitive emissions data pursuant to 326 IAC 2-2 or 326 IAC 2-3.

9. Fugitive Emissions Source	10. Emission Factor (lb/hr)	11. Number Leaking	12. Uncontrolled Potential To Emit	
			Pounds Per Hour	Tons Per Year
Compressor Seals				
Flanges				
Open-Ended Lines				
Pressure Relief Seals				
Pump Seals				
Sampling Connections				
Valves				
Other *(specify)*:				

OAQ GENERAL SOURCE DATA APPLICATION
GSD-08: Hazardous Air Pollutant Emissions Summary

State Form 51604 (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 this form is to provide the actual and potential emissions of each hazardous air pollutant emitted from the source. This form is required for all air permit applications.
- 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: Unit Emissions Summary

Part A provides the actual and potential emissions of each hazardous air pollutant emitted from each emissions unit. If you do not provide enough information to adequately describe the emissions from each emissions unit, the application process may be stopped.

1. Unit ID	2. Stack / Vent ID	3. Hazardous Air Pollutant	4. CAS Number	5. Actual Emissions		6. Potential To Emit	
				Standard Units	Tons Per Year	Standard Units	Tons Per Year
EU-HT6	All combined	Largest HAP (n-hexane)	110-54-3				0.09
		Total combined HAPs					0.09

Continued on Next Page

Part B: Pollutant Emissions Summary

Part B provides the total actual and potential emissions of each hazardous air pollutant emitted from the source (including all emissions units and fugitive emissions at the source). If you do not provide enough information to adequately describe the total source emissions, the application process may be stopped.

7. Hazardous Air Pollutant	8. CAS Number	9. Actual Emissions		10. Potential To Emit	
		Standard Units	Tons Per Year	Standard Units	Tons Per Year
Largest HAP (n-hexane)					0.49
Total combined HAPs					0.51

Part C: Fugitive HAP Emissions *(if applicable)*

Part C summarizes the sources of fugitive HAP emissions at the source and estimates HAP emissions from these emission points. Complete this table if you are required to provide fugitive emissions data pursuant to 326 IAC 2-2 or 326 IAC 2-3.

11. Fugitive Emissions Source	12. Hazardous Air Pollutant	13. Emission Factor (lb/hr)	14. Number Leaking	15. Uncontrolled Potential To Emit	
				Pounds Per Hour	Tons Per Year
Compressor Seals					
Flanges					
Open-Ended Lines					
Pressure Relief Seals					
Pump Seals					
Sampling Connections					
Valves					
Other *(specify)*:					

OAQ GENERAL SOURCE DATA APPLICATION
GSD-09: Summary of Additional Information

State Form 51611 (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 this form is to supply a format for providing additional information about a process or emissions unit. This form is optional.
- 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.

Summary of Additional Information

This table is intended to summarize any additional information about a process or emissions unit that you are submitting with your air permit application.

1. Process: Heat Treat Line 6	**2. Unit ID:** EU-HT6
3. Application Form Reference: GSD-02	

4. Explanation: Provide a brief explanation of why you are supplementing the application with additional information. This information will help us continue to improve our air permit application forms.

Source Layout diagram is in a format that can not be cut and pasted into IDEM's Source Layout form

5. Summary of Additional Information: Provide a brief summary of the additional information you are providing with your air permit application.

6. Additional Calculations / Diagrams: Use the space provided to include additional calculations and/or diagrams, if applicable.

OAQ GENERAL SOURCE DATA APPLICATION
GSD-12: Affidavit of Nonapplicability

State Form 51600 (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-12 is to certify that the requirement to notify adjacent landowners and occupants is not applicable to the source of air pollutant emissions.
- 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: Affidavit Of Nonapplicability

Complete this form to certify that the requirement to notify adjacent landowners and occupants pursuant to Indiana Code (IC) 13-15-8 is not applicable to the source of air pollutant emissions. This form must be notarized by a public notary.

Frank Buono, being first duly sworn upon oath, deposes and says:

1. I live in Macomb County, State of Michigan, and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of President for Ajax Metal (permit applicant's or facility's name).
3. By virtue of my position with Ajax Metal (permit applicant's name), I am authorized to make the representation contained in this affidavit on behalf of the facility.
4. I understand that the notice requirements of Ind. Code § 13-15-8 do not apply to Ajax Metal permit applicant's or facility's name) for purposes of the accompanying permit application.
5. **Further Affiant Saith Not.**

☒ I affirm under the penalty for perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Frank Buono	President
Name *(typed)*	Title
[signature]	6-26-24
Signature	Date
STATE OF Michigan	COUNTY OF Macomb

PART B: Notarization

This section must be completed by a Public Notary.

Before me a notary Public in and for said County and State, personally appeared Frank Buono, and being first duly sworn by me upon oath, says that the fact stated in the foregoing instrument are true. Signed and sealed this 26th of June, 2024

Printed: Bonnita Joy Reinking — My Commission Expires: 11/15/2025

Residence of Oakland — County Michigan

Bonnita Joy Reinking

BONNITA JOY REINKING
Notary Public, State of Michigan
County of Oakland
My Commission Expires Nov. 15, 2025
Acting in the County of Macomb

OAQ PROCESS INFORMATION APPLICATION
PI-02A: Combustion Unit Summary

State Form 52535 (R2 / 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 form is to summarize all of the combustion process units.
- 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 anyone to inspect and photocopy.

Form ID	Form Title	Guidance on when to submit the form
PI-02A	Combustion Unit Summary	Complete once for each application.
PI-02B	Boilers & Process Heaters	Complete once for each boiler or process heater.
PI-02C	Turbines & Internal Combustion Engines	Complete once for each turbine or internal combustion engine.
PI-02D	Incinerators & Combustors	Complete once for each incinerator or combustor.
PI-02E	Kilns	Complete once for each kiln.
PI-02F	Fuel Use	Complete once for each emissions unit that burns fuel **other than natural gas**.
PI-02G	Emission Factors	Complete once for each emissions unit.
PI-02H	Federal Rule Applicability	Complete once for each emissions unit.

Summary of Combustion Units

This table summarizes all the combustion units at the source. If there are multiple combustion units that are identical in nature, capacity, and use, you may use one row to summarize the identical units.

1. Combustion Unit Type	2. Number of Identical Units	3. Unit ID(s)	4. Date of Installation or Modification *(actual or anticipated)*	5. Heat Input Rate of each unit *(MMBtu/hr)*	6. Emergency / Back-Up Unit?
Process Heater	1	EU-HT6 Prewash	11/1/2024	0.83	☐ Yes ☒ No
Process Heater	1	EU-HT6 Hardener	11/1/2024	5.71	☐ Yes ☒ No
Process Heater	1	EU-HT6 Postwash	11/1/2024	0.83	☐ Yes ☒ No
Process Heater	1	EU-HT6 Temper	11/1/2024	3.30	☐ Yes ☒ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No

OAQ PROCESS INFORMATION APPLICATION
PI-02G: Combustion – Emission Factors

State Form 52541 (R2 / 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 form is to specify the emission factors used to calculate potential to emit from the combustion unit.
- Complete one PI-02G form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02G form to summarize the units.
- 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 anyone to inspect and photocopy.

Emission Factors

This table identifies all emission factors used to calculate air emissions from the combustion unit.

1. Unit ID: HT6

2. Air Pollutant:	**3. Emission Factor**		**4. Source of Emission Factor** *(if not using AP-42, include calculations)*		
	value	*units*			
Carbon Monoxide (CO)	84.00	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Lead (Pb)	0.00	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Hazardous Air Pollutant (HAP) *(specify)*: n-hexane	1.80	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Nitrogen Oxides (NO_X)	100.00	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Mercury (Hg)	0.00	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter (PM)	1.90	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 10μm (PM_{10})	7.60	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Particulate Matter less than 2.5μm ($PM_{2.5}$)	7.60	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Sulfur Dioxide (SO_2)	0.60	lb/MMCF	☒ AP-42	☒ Other	☐ N/A
Volatile Organic Compounds (VOC)	5.50	lb/MMCF	☒ AP-42	☐ Other	☐ N/A
Other *(specify)*: CO2e	53.11	kg/MMBtu	☐ AP-42	☒ Other	☐ N/A
Other *(specify)*:			☐ AP-42	☐ Other	☐ N/A
Other *(specify)*:			☐ AP-42	☐ Other	☐ N/A

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OAQ PROCESS INFORMATION APPLICATION
PI-02F: Combustion – Fuel Use

State Form 52540 (R2 / 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 form is to identify each fuel that will be used in the combustion unit. Definitions and additional explanation of terminology are included in the instructions for this form.
- Complete one form PI-02F for each combustion unit. If the unit has any capability of using a fuel, even if on a backup or intermittent basis, complete the applicable section. Using a fuel that is not specified in the permit is a violation of the permit.
- 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 anyone to inspect and photocopy.

PART A: Process Unit Identification

1. Unit ID: EU-HT6 (Prewash, Hardener, Post Wash, Temper)

PART B: Gaseous Fuels

Part B identifies the gaseous fuels that will be used in the combustion unit.

2. Fuel Type:	3. Percent of Fuel Use *(by volume)*	4. Primary or Secondary Fuel?	5. Component Percentages:	6. Heating Value:
☒ Natural Gas	100	☒ Primary ☐ Secondary	Sulfur: 0.00%	1020 *(Btu/ft³)*
☐ Liquefied Petroleum Gas ☐ *Commercial- Propane* ☐ *Engine Fuel Propane (HD-5)* ☐ *Commercial- Butane*		☐ Primary ☐ Secondary	Sulfur: Butane: Propane:	*(Btu/ft³)*
☐ Process Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Landfill Gas *		☐ Primary ☐ Secondary	Sulfur:	*(Btu/ft³)*
☐ Other *(specify)*:		☐ Primary ☐ Secondary	:	*(Btu/ft³)*

* Indicate the source of the process or landfill gas:

Continued on Next Page

PART C: Liquid Fuels

Part C identifies the liquid fuels that will be used in the combustion unit.

7. Fuel Type:	8. Percent of Fuel Use *(by volume)*	9. Primary or Secondary Fuel?	10. Component Percentages:	11. Heating Value:	12. Percent Heat:
☐ Residual Fuel Oil ☐ *No. 5 – Heavy* ☐ *No. 5 – Light* ☐ *No. 6 (Bunker C)*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Distillate Fuel Oil ☐ *No. 1* ☐ *No. 2 (Diesel)* ☐ *No. 4*		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Gasoline		☐ Primary ☐ Secondary	Sulfur:	*(Btu/gal)*	
☐ Waste Oil		☐ Primary ☐ Secondary	Sulfur: Ash: Lead Chlorine:	*(Btu/gal)*	
☐ Liquid Waste *		☐ Primary ☐ Secondary	Sulfur: Fluorine: Chlorine:	*(Btu/gal)*	
☐ Other *(specify)*:		☐ Primary ☐ Secondary	: :	*(Btu/gal)*	

* RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:

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PART D1: Solid Fuels – Coal

Part D1 identifies all variations of coal that will be used in the combustion unit.

13. Fuel Type:	14. Percent of Fuel Use *(by volume)*	15. Primary or Secondary Fuel?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal ☐ *Anthracite* ☐ *Culm*		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Sub-bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Lignite Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Coke		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/lb)*	☐ Dry ☐ Moist
☐ Other Coal *(specify)*:		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	*(Btu/gal)*	☐ Dry ☐ Moist

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Continued on Next Page

PART D2: Other Solid Fuels

Part D2 identifies the solid fuels, other than coal, that will be used in the combustion unit.

19. Fuel Type:	20. Percent of Fuel Use *(by volume)*	21. Primary or Secondary Fuel?	22. Component Percentages:	23. Heating Value:	24. Percent Heat:
☐ Wood or Wood Waste ☐ *Wood Only* ☐ *Wood Residue Only* ☐ *Wood and Wood Residue*		☐ Primary ☐ Secondary	Moisture:	*(Btu/ton)*	
☐ Tires or Tire Derived Fuel ☐ *Whole Tires* ☐ *Tire Derived Fuel*		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	*(Btu/lb)*	
☐ Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	*(Btu/lb)*	
☐ Solid Waste *		☐ Primary ☐ Secondary	: :	*(Btu/lb)*	
☐ Other *(specify)*:		☐ Primary ☐ Secondary	: :	*(Btu/lb)*	

*RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:

PART E: Fuel Consumption Limitations

Use the space provided to specify any fuel consumption limitations that are acceptable for the combustion unit.

OAQ PROCESS INFORMATION APPLICATION
PI-02B: Combustion – Boilers, Process Heaters & Furnaces

State Form 52536 (R2 / 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 form is to specify details that pertain only to boilers, process heaters and furnaces.
- For the purposes of this form, a process heater is any combustion unit that provides heat directly or indirectly to the process.
- Complete one PI-02B form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02B form to summarize the units.
- 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 anyone to inspect and photocopy.

PART A: Process Unit Details

Part A specifies operating information that is unique to boilers, process heaters and furnaces. Definitions and additional explanation of terminology are included in the instructions for this form.

1. Unit ID: EU-HT6 (Prewash, Hardener. Post Wash, Temper)

2. Type of Combustion Unit

☐ Boiler:	☐ Industrial Boiler	☐ Commercial Boiler
	☐ Institutional Boiler	☐ Horseshoe Boiler
☒ Process Heater:	☐ Dutch Oven	☐ Drying Oven
	☐ Fuel Cell	☐ Space Heater
☒ Furnace:	☐ Crucible	☐ Crucible Pot
	☐ Cupola	☐ Electric Arc
	☐ Electric Induction	☐ Open Hearth
	☐ Open Hearth, Oxygen Lanced	☐ Pot
	☐ Reverberatory	☐ Sweat

3. Combustion Process

☐ Cyclone Burner	☐ Fluidized Bed – *Circulating*	☐ Fluidized Bed – *Bubbling*
☐ Overfeed Stoker / Traveling Grate	☐ Pulverized – *Dry Bottom*	☐ Pulverized – *Wet Bottom*
☐ Spreader Stoker	☐ Underfeed Stoker	☒ Other *(specify)*: Nat Gas Burner

4. Heat Transfer Method: ☐ Watertube ☒ Firetube ☐ Cast Iron

5. Transfer Surface Arrangement *(check all that apply)*: ☒ Horizontal ☐ Straight ☐ Vertical ☐ Bent Tube

6. Firing Configuration:

☐ Cyclone	☐ Fluidized Bed Combustor	☐ Front Wall
☐ Horizontally Opposed	☐ Normal	☐ Stoker
☐ Suspension	☐ Tangential	

7. Heat Transfer Method *(process heaters only)*: ☐ Direct ☒ Indirect

8. Fuel Used: ☒ Natural Gas Only ☐ Other – *Attach completed PI-02F.*

Continued on Next Page

PART B: Emission Controls and Limitations

Part B identifies control technology, control techniques or other process limitations that impact air emissions.

9. Add-On Control Technology: *Identify all control technologies used for this process. Attach completed CE-01 (unless "none").*

- ☒ None
- ☐ Baghouse / Fabric Filter – *Attach CE-02.*
- ☐ Cyclone – *Attach CE-03.*
- ☐ Electrostatic Precipitator – *Attach CE-04.*
- ☐ Absorption / Wet Collector / Scrubber – *Attach CE-05.*
- ☐ NO_X Reduction – *Attach CE-09.*
- ☐ Other *(specify)*: – *Attach CE-10.*

10. Control Techniques: *Identify all control techniques used for this process.*

- ☐ None *(explain)*:
- ☐ Ammonia Injection
- ☐ Biased Burner Firing
- ☐ Burning Oil / Water Emulsions
- ☐ Burners Out Of Service
- ☐ Duct Injection
- ☐ Flue Gas Recirculation
- ☐ Flyash Reinjection
- ☐ Furnace Injection
- ☐ Load Reduction
- ☐ Low Excess Air
- ☐ Low NO_X Burners
- ☐ Overfire Air
- ☐ Reburn
- ☐ Reduced Air Preheat
- ☐ Spray Drying
- ☐ Staged Combustion
- ☒ Other *(specify)*: Recuperative Burners – *Attach completed GSD-09.*

11. Process Limitations / Additional Information: *Identify any acceptable process limitations. Attach additional information if necessary.*

The hardening furnace uses a flame curtain to maint atmosphere inside the furnce. An eductor is used which completes the combustion process when the furnace atmosphere is released and fro quching.

PART C: Previously Installed Boilers

Part C identifies all boilers that were installed prior to submitting this application.

12. Are there any **Previously Installed Boilers** present at this source?

- ☒ No – Proceed to Part D.
- ☐ Yes → ☐ Information attached. ☐ Information is contained in operating permit:

PART D: Furnace Details

Part D identifies details that pertain only to furnaces. If there are no furnaces identified with this application, completion of this table is not required.

13. Material Melted:

14. Maximum Melt Rate *(specify units)*:

15. Flux Type: ☐ MSDS attached.

16. Flux Amount *(specify units)*:

17. Oven Throughput Material: 6000 lb/hr metal for hardening and tempering

OAQ PROCESS INFORMATION APPLICATION
PI-02H: Combustion – Federal Rule Applicability

State Form 52542 (R2 / 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 form is to identify any federal rules that apply to the emission unit.
- Complete one PI-02H form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and use, you may use one PI-02H form to summarize the units.
- 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 anyone to inspect and photocopy.

Federal Rule Applicability

This table identifies any federal rules that apply to the process.

1. Is a **New Source Performance Standard (NSPS)** applicable to this source? ☐ Yes ☒ No *If yes, attach a completed FED-01 for each rule that applies.*		2. **Unit IDs**
☐ 40 CFR Part 60, Subpart Cb	Large Municipal Waste Combustors *(constructed before 9/20/1994)*	
☐ 40 CFR Part 60, Subpart Ce	Hospital/Medical/Infectious Waste Incinerators	
☐ 40 CFR Part 60, Subpart D	Fossil-Fuel-Fired Steam Generators *(constructed after 8/17/1971)*	
☐ 40 CFR Part 60, Subpart Da	Electric Utility Steam Generating Units *(constructed after 9/18/1978)*	
☐ 40 CFR Part 60, Subpart Db	Industrial-Commercial-Institutional Generating Units	
☐ 40 CFR Part 60, Subpart Dc	Small Industrial-Commercial-Institutional Generating Units	
☐ 40 CFR Part 60, Subpart E	Incinerators	
☐ 40 CFR Part 60, Subpart Ea	Municipal Waste Combustors *(constructed after 12/20/1989 and before 9/20/1994)*	
☐ 40 CFR Part 60, Subpart Eb	Large Municipal Waste Combustors *(constructed after 9/20/1994 or modified / reconstructed after 6/19/1996)*	
☐ 40 CFR Part 60, Subpart Ec	Hospital/Medical/Infectious Waste Incinerators *(constructed after 6/20/1996)*	
☐ 40 CFR Part 60, Subpart O	Sewage Treatment Plants *(sludge burners)*	
☐ 40 CFR Part 60, Subpart Y	Coal Preparation Plants	
☐ 40 CFR Part 60, Subpart GG	Stationary Gas Turbines	
☐ 40 CFR Part 60, Subpart AAA	New Residential Wood Heaters	
☐ 40 CFR Part 60, Subpart AAAA	Small Municipal Waste Combustion Units *(constructed after 8/30/1999 or modified / reconstructed after 6/6/2001)*	
☐ 40 CFR Part 60, Subpart BBBB	Small Municipal Waste Combustion Units *(constructed on or before 8/30/1999)*	
☐ 40 CFR Part 60, Subpart CCCC	Commercial and Industrial Solid Waste Incineration Units *(constructed after 11/30/1999 or modified / reconstructed after 6/1/2001)*	
☐ 40 CFR Part 60, Subpart DDDD	Commercial and Industrial Solid Waste Incineration Units *(constructed on or before 11/30/1999)*	
☐ 40 CFR Part 60, Subpart KKKK	Stationary Combustion Turbines	

Continued on Next Page

Federal Rule Applicability *(continued)*

This table identifies any federal rules that apply to the process.

3. Is a **National Emission Standard for Hazardous Air Pollutants (NESHAP)** applicable to this source? ☐ Yes ☒ No *If yes, attach a completed FED-01 for each rule that applies.*		**4. Unit IDs**
☐ 40 CFR Part 63, Subpart MM	Combustion Sources at Kraft, Soda, and Sulfite Pulp & Paper Mills	
☐ 40 CFR Part 63, Subpart EEE	Hazardous Waste Combustion	
☐ 40 CFR Part 63, Subpart YYYY	Stationary Combustion Turbines	
☐ 40 CFR Part 63, Subpart ZZZZ	Reciprocating Internal Combustion Engines (RICE)	
☐ 40 CFR Part 63, Subpart DDDDD	Industrial, Commercial, and Institutional Boilers and Process Heaters	

5. Non-Applicability Determination: *Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.*

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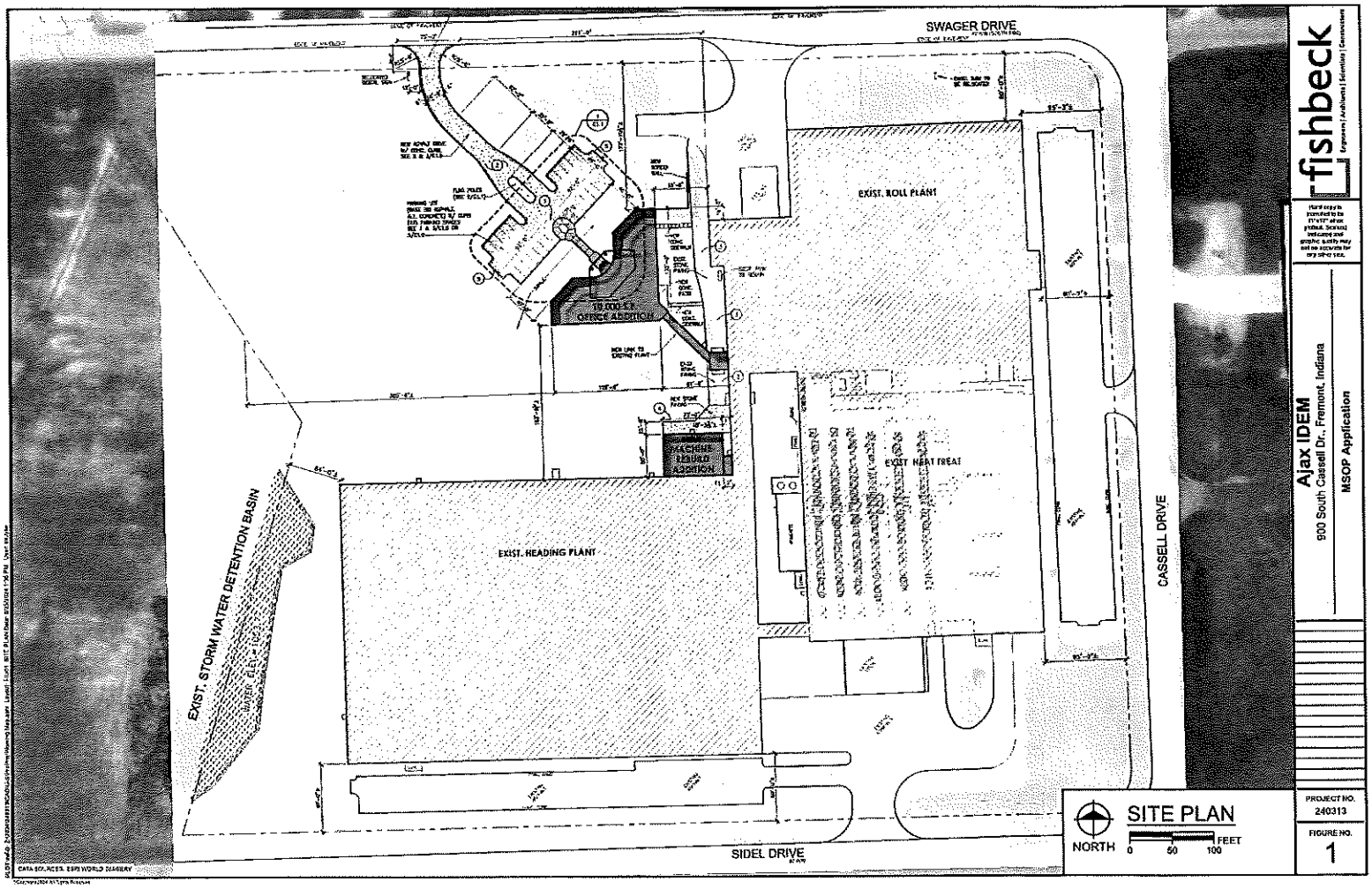

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Ajax IDEM
900 South Cassell Dr., Fremont, Indiana
MSOP Application

PROJECT NO.
240313

FIGURE NO.
1

Table 1 – Equipment List

Heat Treat Line 6

Ajax Metal Processing, Fremont, Indiana

Year Installed	Line ID	Equipment ID	Max Heat Input (MMBtu/hr)	IDEM Air Permit Exemption	No. of Units	Total Heat Input (MMBtu/hr)
Scheduled to be installed 2024Q4	PROPOSED Heat Treat 6	Prewash 6	0.83	26 IAC 2-1.1-3 (5)(A)(i)	1	0.83
		Hardener 6	5.717	26 IAC 2-1.1-3 (5)(A)(i)	1	5.72
		Postwash 6	0.83	26 IAC 2-1.1-3 (5)(A)(i)	1	0.83
		Temper 6	3.30	26 IAC 2-1.1-3 (5)(A)(i)	1	3.30
	PROPOSED LINE 6 TOTAL MAX HEAT INPUT					10.68

Table 2 – Potential to Emit Summary
PTE Determination
Ajax Metal Processing, Fremont, Indiana

Pollutants	Potential to Emit (tpy)
	Line 6
Volatile organic compounds (VOCs) for sources not required to use air pollution control equipment to comply with the VOC emission rules	0.25
VOCs for sources that are required to use air pollution control equipment to comply with the VOC emission rules	-
(NO_X)	4.6
(CO)	3.9
(SO_2)	0.028
Particulate Matter	0.09
(PM_{10})	0.3
($PM_{2.5}$)	0.3
Lead	2.3E-05
Fluorides	-
Hydrogen Sulfide	-
Total Reduced Sulfur	-
Reduced Sulfur Compounds	-
HAP (Single - N-Hexane)*	0.08
HAP (Combined)*	0.09

Table 3 - Natural Gas Combustion NSR Emissions
Heat Treat Line 6 PTE
Ajax Metal Processing, Fremont, Indiana

Heat Input Capacity	MMBtu/hr	10.7
Heat Input Capacity	MMcf/hr	1.05E-02
Annual Operating Hours	hr/yr	8,760
Annual Heat Input Capacity	MMBtu/yr	93,531
Fuel Heat Value	MMBtu/MMcf	1,020

NSR Regulated Pollutant	Emission Factor (See Notes)		Notes	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)
CO	84	lb/MMCF	1	0.9	3.9
NO_X	100	lb/MMCF	1	1.0	4.6
PM	1.9	lb/MMCF	1	0.020	0.09
PM_{10}	7.6	lb/MMCF	1	0.08	0.35
$PM_{2.5}$	7.6	lb/MMCF	1	0.08	0.35
SO_2	0.6	lb/MMCF	1	0.006	0.028
VOC	5.5	lb/MMCF	1	0.06	0.25
CO_2	53.06	kg/MMBtu	2	1,249	5,470
CH_4	1.00E-03	kg/MMBtu	2	2.35E-02	0.10
N_2O	1.00E-04	kg/MMBtu	2	2.35E-03	0.010
CO_2e	53.11	kg/MMBtu	2	1,250	5,476
Lead	5.00E-04	lb/MMCF	3	5.23E-06	2.3E-05
Fluorides					
H_2S					
H_2SO_4					

[1] Emission factors are from Web-fire for SCC 1-02-006-03 for a Boiler with a heat input capacity of less than 10 MMBtu/hr.
[2] CO_2e global warming potential and emission factors obtained from 40 CFR 98 Subparts A and C, respectively. The global warming potential for CH_4 (25) and N_2O (298) are consistent with the USEPA published changes on November 29, 2013.
[3] Emission factors are from Web-fire for SCC 1-02-006-02 for a Boiler with a heat input capacity of greater than 10

Emission Calculation Methods
Using lb/MMCF Emission Factors
$E_{ST} = C_{MMCF} \times EF_{MMCF}$
Using kg/MMBtu Emission Factors
$E_{ST} = C_{HI} \times 2.20462\ lb/kg \times EF_{kg}$
$E_A = E_{ST} \times$ Annual Operating Hours / 2,000 lb/to

where:
E_{ST} = Short Term Emissions (lb/hr);
E_A = Annual Maximum Emissions (tpy);
C_{MMCF} = Max Fuel Usage (MMCF/hr); and
EF_{MMCF} = emission factor (lb/MMCF)
C_{HI} = Heat Input Capacity (MMBtu/hr); and
EF_{kg} = emission factor (kg/MMBtu)

Table 4 - Natural Gas Combustion HAP Emissions

Heat Treat Line 6 PTE

Ajax Metal Processing, Fremont, Indiana

		Line 6 Combined
Heat Input Capacity	MMBtu/hr	10.7
Heat Input Capacity	MMcf/hr	1.05E-02
Annual Operating Hours	hr/yr	8,760
Annual Heat Input Limit or Capacity	MMBtu/yr	93,531
Fuel Heat Value	MMBtu/MMcf	1,020

Toxic Air Contaminant	CAS No.	Emission Factor (See Notes)		Notes	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)
Formaldehyde	50-00-0	7.50E-02	lb/MMCF	1	7.85E-04	3.44E-03
Benzo (a) pyrene	50-32-8	1.20E-06	lb/MMCF	1	1.26E-08	5.50E-08
Dibenzo(a,h) anthracene	53-70-3	1.20E-06	lb/MMCF	1	1.26E-08	5.50E-08
3-Methylcholanthrene	56-49-5	1.80E-06	lb/MMCF	1	1.88E-08	8.25E-08
Benzo (a) anthracene	56-55-3	1.80E-06	lb/MMCF	1	1.88E-08	8.25E-08
Dimethylbenz(a)anthracene	57-97-6	1.60E-05	lb/MMCF	1	1.67E-07	7.34E-07
Benzene	71-43-2	2.10E-03	lb/MMCF	1	2.20E-05	9.63E-05
Acenaphthene	83-32-9	1.80E-06	lb/MMCF	1	1.88E-08	8.25E-08
Phenanthrene	85-01-8	1.70E-05	lb/MMCF	1	1.78E-07	7.79E-07
Fluorene	86-73-7	2.80E-06	lb/MMCF	1	2.93E-08	1.28E-07
Naphthalene	91-20-3	6.10E-04	lb/MMCF	1	6.39E-06	2.80E-05
2-Methyl Naphthalene	91-57-6	2.40E-05	lb/MMCF	1	2.51E-07	1.10E-06
Toluene	108-88-3	3.40E-03	lb/MMCF	1	3.56E-05	1.56E-04
N-Hexane	110-54-3	1.80E+00	lb/MMCF	1	1.88E-02	8.25E-02
Anthracene	120-12-7	2.40E-06	lb/MMCF	1	2.51E-08	1.10E-07
Pyrene	129-00-0	5.00E-06	lb/MMCF	1	5.23E-08	2.29E-07
Benzo (g,h,i) perylene	191-24-2	1.20E-06	lb/MMCF	1	1.26E-08	5.50E-08
Indeno(1,2,3-cd)pyrene	193-39-5	1.80E-06	lb/MMCF	1	1.88E-08	8.25E-08
Benzo (b) fluoranthene	205-99-2	1.80E-06	lb/MMCF	1	1.88E-08	8.25E-08
Fluoranthene	206-44-0	3.00E-06	lb/MMCF	1	3.14E-08	1.38E-07
Benzo (k) fluoranthene	207-08-9	1.80E-06	lb/MMCF	1	1.88E-08	8.25E-08
Acenaphthylene	208-96-8	1.80E-06	lb/MMCF	1	1.88E-08	8.25E-08
Chrysene	218-01-9	1.80E-06	lb/MMCF	1	1.88E-08	8.25E-08
Manganese	7439-96-5	3.80E-04	lb/MMCF	1	3.98E-06	1.74E-05
Mercury	7439-97-6	2.60E-04	lb/MMCF	1	2.72E-06	1.19E-05
Nickel	7440-02-0	2.10E-03	lb/MMCF	1	2.20E-05	9.63E-05
Arsenic	7440-38-2	2.00E-04	lb/MMCF	1	2.09E-06	9.17E-06
Beryllium	7440-41-7	1.20E-05	lb/MMCF	1	1.26E-07	5.50E-07
Cadmium	7440-43-9	1.10E-03	lb/MMCF	1	1.15E-05	5.04E-05
Chromium	7440-47-3	1.40E-03	lb/MMCF	1	1.47E-05	6.42E-05
Cobalt	7440-48-4	8.40E-05	lb/MMCF	1	8.79E-07	3.85E-06
Selenium	7782-49-2	2.40E-05	lb/MMCF	1	2.51E-07	1.10E-06
	TOTAL HAPS					8.65E-02
	PM HAPS					2.55E-04

[1] Emission factors are from Web-fire for SCC 1-02-006-02 because no HAP factors are available for SCC 1-02-006-03.

Emission Calculation Methods

Using lb/MMCF Emission Factors

$E_{ST} = C_{MMCF} \times EF_{MMCF}$

$E_{A} = E_{ST} \times$ Annual Operating Hours / 2,000 lb/ton

where:

E_{ST} = Short Term Emissions (lb/hr);

E_{A} = Annual Maximum Emissions (tpy);

C_{MMCF} = Max Fuel Usage (MMCF/hr); and

EF_{MMCF} = emission factor (lb/MMCF)

Table 5 - Natural Gas Combustion NSR Emissions
MSOP Application
Ajax Metal Processing, Fremont, Indiana

		1998	2001	2003	2012	2019 (line 5)	2024 (line 6)
Heat Input Capacity	MMBtu/hr	19.4	29.9	40.4	41.8	57.3	63.0
Heat Input Capacity	MMcf/hr	1.91E-03	2.94E-02	3.97E-02	4.10E-02	5.13E-02	6.18E-02
Annual Operating Hours	hr/yr	8,760	8,760	8,760	8,760	8,760	8,760
Annual Heat Input Capacity	MMBtu/yr	170,364	262,344	354,324	366,343	458,323	551,854
Fuel Heat Value	MMBtu/MMcf	1,020	1,020	1,020	1,020	1,020	1,020

NSR Regulated Pollutant	Emission Factor (See Notes)		Notes	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)
CO	84	lb/MMCF	1	1.6	7.0	2.5	10.8	3.3	14.6	3.4	15.1	4.3	18.9	5.2	22.7
NO_x	100	lb/MMCF	1	1.9	8.4	2.9	12.9	4.0	17.4	4.1	18.0	5.1	22.5	6.2	27.1
PM	1.9	lb/MMCF	1	0.036	0.16	0.056	0.24	0.075	0.33	0.08	0.34	0.10	0.43	0.12	0.51
PM_{10}	7.6	lb/MMCF	1	0.14	0.63	0.22	1.0	0.30	1.3	0.3	1.4	0.4	1.7	0.5	2.1
$PM_{2.5}$	7.6	lb/MMCF	1	0.14	0.63	0.22	1.0	0.30	1.3	0.3	1.4	0.4	1.7	0.5	2.1
SO_2	0.6	lb/MMCF	1	0.011	0.050	0.018	0.077	0.024	0.10	0.02	0.11	0.03	0.13	0.04	0.16
VOC	5.5	lb/MMCF	1	0.10	0.46	0.16	0.71	0.22	1.0	0.2	1.0	0.3	1.2	0.3	1.5
CO_2	53.06	kg/MMBtu	2	2,275	9,964	3,503	15,344	4,731	20,724	4,892	21,427	6,120	26,807	7,369	32,277
CH_4	1.00E-03	kg/MMBtu	2	4.29E-02	0.19	6.60E-02	0.29	8.92E-02	0.39	0.09	0.40	0.12	0.51	0.14	0.61
N_2O	1.00E-04	kg/MMBtu	2	4.29E-03	0.019	6.60E-03	0.029	8.92E-03	0.039	0.009	0.040	0.012	0.051	0.014	0.061
CO_2e	53.11	kg/MMBtu	2	2,277	9,975	3,507	15,360	4,736	20,745	4,897	21,449	6,127	26,834	7,377	32,310
Lead	5.00E-04	lb/MMCF	3	9.53E-06	4.2E-05	1.47E-05	6.43E-05	1.98E-05	8.7E-05	7.1E-05	9.0E-05	2.6E-05	1.1E-04	3.1E-05	1.4E-04
Fluorides															
H_2S															
H_2SO_4															

[1] Emission factors are from Web-fire for SCC 1-02-006-03 for a Boiler with a heat input capacity of less than 10 MMBtu/hr.
[2] CO_2e global warming potential and emission factors obtained from 40 CFR 98 Subparts A and C, respectively. The global warming potential for CH_4 (25) and N_2O (298) are consistent with the USEPA published changes on November 29, 2013.
[3] Emission factors are from Web-fire for SCC 1-02-006-02 for a Boiler with a heat input capacity of greater than 10 MMBtu/hr.

Emission Calculation Methods

Using lb/MMCF Emission Factors

$E_{ST} = C_{MMCF} X EF_{MMCF}$

Using kg/MMBtu Emission Factors

$E_{ST} = C_{HI} X 2.20462 lb/kg X EF_{kg}$

$E_A = E_{ST} X$ *Annual Operating Hours / 2,000 lb/ton*

where:

E_{ST} = *Short Term Emissions (lb/hr);*
E_A = *Annual Maximum Emissions (tpy);*
C_{MMCF} = *Max Fuel Usage (MMCF/hr); and*
EF_{MMCF} = *emission factor (lb/MMCF)*
C_{HI} = *Heat Input Capacity (MMBtu/hr); and*
EF_{kg} = *emission factor (kg/MMBtu)*

Table 6 - Natural Gas Combustion HAP Emissions
MSOP Application
Ajax Metal Processing, Fremont, Indiana

		1998	2001	2003	2012	2019 (line 5)	2024-2025 (line 6)
Heat Input Capacity	MMBtu/hr	19.4	29.9	40.4	41.8	52.3	63.0
Heat Input Capacity	MMcf/hr	1.91E-02	2.94E-02	3.97E-02	4.10E-02	5.13E-02	6.18E-02
Annual Operating Hours	hr/yr	8,760	8,760	8,760	8760	8760	8760
Annual Heat Input Limit or Capacity	MMBtu/yr	170,364	262,344	354,324	366,343	458,323	551,854
Fuel Heat Value	MMBtu/MMcf	1,020	1,020	1,020	1,020	1,020	1,020

Toxic Air Contaminant	CAS No.	Emission Factor (See Notes)		Notes	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)	Maximum Short Term Emissions per Unit (lb/hr)	PTE (tpy)
Formaldehyde	50-00-0	7.50E-02	lb/MMCF	1	1.43E-03	6.26E-03	2.20E-03	9.65E-03	2.97E-03	1.30E-02	3.08E-03	1.35E-02	3.85E-03	1.69E-02	4.63E-03	2.03E-02
Benzo (a) pyrene	50-32-8	1.20E-06	lb/MMCF	1	2.29E-08	1.00E-07	3.52E-08	1.54E-07	4.76E-08	2.08E-07	4.92E-08	2.15E-07	6.16E-08	2.70E-07	7.41E-08	3.25E-07
Dibenzo[a,h] anthracene	53-70-3	1.20E-06	lb/MMCF	1	2.29E-08	1.00E-07	3.52E-08	1.54E-07	4.76E-08	2.08E-07	4.92E-08	2.15E-07	6.16E-08	2.70E-07	7.41E-08	3.25E-07
3-Methylcholanthrene	56-49-5	1.80E-06	lb/MMCF	1	3.43E-08	1.50E-07	5.28E-08	2.31E-07	7.14E-08	3.13E-07	7.38E-08	3.23E-07	9.23E-08	4.04E-07	1.11E-07	4.87E-07
Benzo (a) anthracene	56-55-3	1.80E-06	lb/MMCF	1	3.43E-08	1.50E-07	5.28E-08	2.31E-07	7.14E-08	3.13E-07	7.38E-08	3.23E-07	9.23E-08	4.04E-07	1.11E-07	4.87E-07
Dimethylbenz[a]anthracene	57-97-6	1.60E-05	lb/MMCF	1	3.05E-07	1.34E-06	4.70E-07	2.06E-06	6.34E-07	2.78E-06	6.56E-07	2.87E-06	8.21E-07	3.59E-06	9.88E-07	4.33E-06
Benzene	71-43-2	2.10E-03	lb/MMCF	1	4.00E-05	1.75E-04	6.17E-05	2.70E-04	8.33E-05	3.65E-04	8.61E-05	3.77E-04	1.08E-04	4.72E-04	1.30E-04	5.68E-04
Acenaphthene	83-32-9	1.80E-06	lb/MMCF	1	3.43E-08	1.50E-07	5.28E-08	2.31E-07	7.14E-08	3.13E-07	7.38E-08	3.23E-07	9.23E-08	4.04E-07	1.11E-07	4.87E-07
Phenanthrene	85-01-8	1.70E-05	lb/MMCF	1	3.24E-07	1.42E-06	4.99E-07	2.19E-06	6.74E-07	2.95E-06	6.97E-07	3.05E-06	8.72E-07	3.82E-06	1.05E-06	4.60E-06
Fluorene	86-73-7	2.80E-06	lb/MMCF	1	5.34E-08	2.34E-07	8.22E-08	3.60E-07	1.11E-07	4.86E-07	1.15E-07	5.03E-07	1.44E-07	6.29E-07	1.73E-07	7.57E-07
Naphthalene	91-20-3	6.10E-04	lb/MMCF	1	1.16E-05	5.09E-05	1.79E-05	7.84E-05	2.42E-05	1.06E-04	2.50E-05	1.10E-04	3.13E-05	1.37E-04	3.77E-05	1.65E-04
2-Methyl Naphthalene	91-57-6	2.40E-05	lb/MMCF	1	4.58E-07	2.00E-06	7.05E-07	3.09E-06	9.52E-07	4.17E-06	9.84E-07	4.31E-06	1.23E-06	5.39E-06	1.48E-06	6.49E-06
Toluene	108-88-3	3.40E-03	lb/MMCF	1	6.48E-05	2.84E-04	9.98E-05	4.37E-04	1.35E-04	5.91E-04	1.39E-04	6.11E-04	1.74E-04	7.64E-04	2.10E-04	9.20E-04
N-Hexane	110-54-3	1.80E+00	lb/MMCF	1	3.43E-02	1.50E-01	5.28E-02	2.31E-01	7.14E-02	3.13E-01	7.38E-02	3.23E-01	9.23E-02	4.04E-01	1.11E-01	4.87E-01
Anthracene	120-12-7	2.40E-06	lb/MMCF	1	4.58E-08	2.00E-07	7.05E-08	3.09E-07	9.52E-08	4.17E-07	9.84E-08	4.31E-07	1.23E-07	5.39E-07	1.48E-07	6.49E-07
Pyrene	129-00-0	5.00E-06	lb/MMCF	1	9.53E-08	4.18E-07	1.47E-07	6.43E-07	1.98E-07	8.68E-07	2.05E-07	8.98E-07	2.56E-07	1.12E-06	3.09E-07	1.35E-06
Benzo (g,h,i) perylene	191-24-2	1.20E-06	lb/MMCF	1	2.29E-08	1.00E-07	3.52E-08	1.54E-07	4.76E-08	2.08E-07	4.92E-08	2.15E-07	6.16E-08	2.70E-07	7.41E-08	3.25E-07
Indeno(1,2,3-cd)pyrene	193-39-5	1.80E-06	lb/MMCF	1	3.43E-08	1.50E-07	5.28E-08	2.31E-07	7.14E-08	3.13E-07	7.38E-08	3.23E-07	9.23E-08	4.04E-07	1.11E-07	4.87E-07
Benzo (b) fluoranthene	205-99-2	1.80E-06	lb/MMCF	1	3.43E-08	1.50E-07	5.28E-08	2.31E-07	7.14E-08	3.13E-07	7.38E-08	3.23E-07	9.23E-08	4.04E-07	1.11E-07	4.87E-07
Fluoranthene	206-44-0	3.00E-06	lb/MMCF	1	5.72E-08	2.51E-07	8.81E-08	3.86E-07	1.19E-07	5.21E-07	1.23E-07	5.39E-07	1.54E-07	6.74E-07	1.85E-07	8.12E-07
Benzo (k) fluoranthene	207-08-9	1.80E-06	lb/MMCF	1	3.43E-08	1.50E-07	5.28E-08	2.31E-07	7.14E-08	3.13E-07	7.38E-08	3.23E-07	9.23E-08	4.04E-07	1.11E-07	4.87E-07
Acenaphthylene	208-96-8	1.80E-06	lb/MMCF	1	3.43E-08	1.50E-07	5.28E-08	2.31E-07	7.14E-08	3.13E-07	7.38E-08	3.23E-07	9.23E-08	4.04E-07	1.11E-07	4.87E-07
Chrysene	218-01-9	1.80E-06	lb/MMCF	1	3.43E-08	1.50E-07	5.28E-08	2.31E-07	7.14E-08	3.13E-07	7.38E-08	3.23E-07	9.23E-08	4.04E-07	1.11E-07	4.87E-07
Manganese	7439-96-5	3.80E-04	lb/MMCF	1	7.25E-06	3.17E-05	1.12E-05	4.89E-05	1.51E-05	6.60E-05	1.56E-05	6.82E-05	1.95E-05	8.54E-05	2.35E-05	1.03E-04
Mercury	7439-97-6	2.60E-04	lb/MMCF	1	4.96E-06	2.17E-05	7.63E-06	3.34E-05	1.03E-05	4.52E-05	1.07E-05	4.67E-05	1.33E-05	5.84E-05	1.61E-05	7.03E-05
Nickel	7440-02-0	2.10E-03	lb/MMCF	1	4.00E-05	1.75E-04	6.17E-05	2.70E-04	8.33E-05	3.65E-04	8.61E-05	3.77E-04	1.08E-04	4.72E-04	1.30E-04	5.68E-04
Arsenic	7440-38-2	2.00E-04	lb/MMCF	1	3.81E-06	1.67E-05	5.87E-06	2.57E-05	7.93E-06	3.47E-05	8.20E-06	3.59E-05	1.03E-05	4.49E-05	1.24E-05	5.41E-05
Beryllium	7440-41-7	1.20E-05	lb/MMCF	1	2.29E-07	1.00E-06	3.52E-07	1.54E-06	4.76E-07	2.08E-06	4.92E-07	2.15E-06	6.16E-07	2.70E-06	7.41E-07	3.25E-06
Cadmium	7440-43-9	1.10E-03	lb/MMCF	1	2.10E-05	9.19E-05	3.23E-05	1.41E-04	4.36E-05	1.91E-04	4.51E-05	1.98E-04	5.64E-05	2.47E-04	6.79E-05	2.98E-04
Chromium	7440-47-3	1.40E-03	lb/MMCF	1	2.67E-05	1.17E-04	4.11E-05	1.80E-04	5.55E-05	2.43E-04	5.74E-05	2.51E-04	7.18E-05	3.15E-04	8.65E-05	3.79E-04
Cobalt	7440-48-4	8.40E-05	lb/MMCF	1	1.60E-06	7.02E-06	2.47E-06	1.08E-05	3.33E-06	1.46E-05	3.44E-06	1.51E-05	4.31E-06	1.89E-05	5.19E-06	2.27E-05
Selenium	7782-49-2	2.40E-05	lb/MMCF	1	4.58E-07	2.00E-06	7.05E-07	3.09E-06	9.52E-07	4.17E-06	9.84E-07	4.31E-06	1.23E-06	5.39E-06	1.48E-06	6.49E-06
TOTAL HAPS		1.89E+00				1.58E-01		2.43E-01		3.28E-01		3.39E-01		4.24E-01		5.10E-01
PM HAPS						4.64E-04		7.15E-04		9.66E-04		9.98E-04		1.25E-03		1.50E-03

[1] Emission factors are from Web-fire for SCC 1-02-006-02 because no HAP factors are available for SCC 1-02-006-03.

Emission Calculation Methods
Using lb/MMCF Emission Factors
$E_{ST} = C_{MMCF} \times EF_{MMCF}$
$E_A = E_{ST} \times$ Annual Operating Hours / 2,000 lb/ton

where:
E_{ST} = Short Term Emissions (lb/hr);
E_A = Annual Maximum Emissions (tpy);
C_{MMCF} = Max Fuel Usage (MMCF/hr); and
EF_{MMCF} = emission factor (lb/MMCF)

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1Z7604 8/18 BP

JANINE RIEMERSMA
6165753824
FISHBECK
1515 ARBORETUM DR SE
GRAND RAPIDS MI 49546

2 LBS

1 OF 1

SHIP TO:
INCOMING APPLICATION
3172330178
IDEM AIR QUALITY PERMITS BRANCH
MC 61-53 ROOM 1003
100 N. SENATE AVENUE
INDIANAPOLIS IN 46204

IN 461 9-01

UPS GROUND
TRACKING #: 1Z 306 6W7 03 9210 0841

BILLING: P/P

Reference No.1: 240313
Reference No.2: JRiemersma; SJarrett
XOL 24.08.26 AV45 26.0A 08/2024

TM

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State of Indiana
JUL 01 2024
Dept of Environmental Mgmt
Office of Air Quality