

Facility ID: 1318001287 Issuance type: Title V Draft Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

- F001 Roadways and Parking Areas
- F003 Hot Dross Handling
- P017 Chlorine Vaporizer
- P019 Ladle Temperature Holding Station #1 (Heaters 1 through 4)
- Z000 Welding Operations
- P021 Ladle Temperature Holding Station #2 (Heaters 5 through 8)
- Z002 Ladle Temperature Holding Station #3 (Heaters 9 and 10)
- Z004 Metal Pouring and Casting
- Z005 Scrap Aluminum Unloading
- Z006 Scrap Aluminum Storage/Sorting
- Z007 Cold Cleaner
- Z008 Cold Cleaner
- Z009 Raw Material Quality Testing

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

- [Go to Part III for Emissions Unit P020](#)
- [Go to Part III for Emissions Unit P024](#)
- [Go to Part III for Emissions Unit P903](#)
- [Go to Part III for Emissions Unit P912](#)
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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1318001287 Emissions Unit ID: P020 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
30,000 lbs/hr aluminum scrap hammermill crusher equipped with 2 vibrating conveyors, 2 belt conveyors, 2 drum magnets and controlled with a 25,000 acfm fabric filter.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	Particulate emissions shall not exceed 8.13 lbs/hr.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the pressure drop range established during the most recent emission test that demonstrated that the emissions unit was in compliance.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to monitor the pressure drop across the fabric filter while this emissions unit is in operation. The monitoring device shall be capable of accurately measuring the desired parameter. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).
2. The permittee shall record the pressure drop across the fabric filter at the beginning of each shift on a daily basis when the emissions unit is in operation.

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IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range.

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V. Testing Requirements

1. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- a. Emission testing shall be conducted to demonstrate compliance with the allowable particulate mass emission limitation of 8.13 lbs/hr.
- b. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit renewal.
- c. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
- d. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1 through 5 of 40 CFR Part 60, Appendix A. If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1318001287 Emissions Unit ID: P020 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
30,000 lbs/hr aluminum scrap hammermill crusher equipped with 2 vibrating conveyors, (PTI 13-2897) 2 belt conveyors, 2 drum magnets and controlled with a 25,000 acfm fabric filter.	OAC rule 3745-31-05	Particulate emissions shall not exceed 0.01 grain/acf, 2.14 lbs/hr, and 9.39 tons/yr from the stack serving the fabric filter. Visible particulate emissions from the stack serving the fabric filter shall not exceed 5% opacity, as a 6-

minute average.

See Sections B.I.2.a and B.I.2.b below.

2. **Additional Terms and Conditions**

- a. The permittee shall maintain a minimum of 10% of the total number of bags in the fabric filter in inventory at all times.
- b. All of the visible particulate emissions from this emissions unit shall be captured at the hood and vented to the fabric filter.

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II. **Operational Restrictions**

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III. **Monitoring and/or Record Keeping Requirements**

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IV. **Reporting Requirements**

1. The permittee shall submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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V. **Testing Requirements**

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitations:
Particulate emissions shall not exceed 0.01 grain/acf, 2.14 lbs/hr, and 9.39 tons/yr from the stack serving the fabric filter.

Applicable Compliance Method:
Compliance with the grain loading and lbs/hr particulate emission limitations shall demonstrated through the emission testing required pursuant to Section A.V.3. Compliance with the annual particulate emission limitation can be assumed if the permittee demonstrates compliance with the lbs/hr emission limitation.

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1318001287 Emissions Unit ID: P024 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
0.95 mmBtu/hr natural gas-fired wastewater/oil Evaporator No. 1.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions from the natural gas-fired burner shall not exceed 0.020 lb/mmBtu of actual heat input.
	OAC rule 3745-17-11(B)(1)	Particulate emissions from the evaporation process shall not exceed 1.64 lbs/hr.
	OAC rule 3745-21-07(G)	None, see Section A.I.2.a below.
	OAC rule 3745-23-06(B) (PTI 13-3228)	Nitrogen oxides emissions shall not exceed 0.1 lb/hr and 0.44 ton/yr.
		See Section A.I.2.b below.

2. **Additional Terms and Conditions**

- a. This emissions unit is exempt from the emission limitations specified in OAC rule 3745-21-07(G)(2) pursuant to OAC rule 3745-21-07(G)(9)(c).
- b. The nitrogen oxides lb/hr emission limitation specified in Section A.I.1 reflects the emissions unit's potential to emit; therefore, there are no additional monitoring, record keeping or reporting requirements associated with this emission limitation.

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- II. **Operational Restrictions**

1. None

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- III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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- IV. **Reporting Requirements**

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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- V. **Testing Requirements**

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.

Applicable Compliance Method:
Compliance with the lb/hr emission limitation shall be determined by multiplying an emission factor of 12.0

lbs/mmcu. ft. by the emissions unit's maximum hourly fuel consumption rate (0.95 mmc. ft./hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B) (9).

- 3. Emission Limitation:
Particulate emissions shall not exceed 1.64 lbs/hr.

Applicable Compliance Method:
Compliance with this emission limitation can be assumed since the particulate emission rate, at the emissions unit's maximum process weight (511 lbs/hr) is always equal to or less than the allowable emission limitation.

If required, the permittee shall demonstrate compliance with this particulate emission limitation through emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

- 4. Emission Limitations:
Nitrogen oxides emissions shall not exceed 0.1 lb/hr and 0.44 ton/yr.

Applicable Compliance Method:
Compliance with the lb/hr emission limitation shall be determined by multiplying an emission factor of 100 lbs/mmcu. ft. by the emissions unit's maximum hourly fuel consumption rate (0.95 mmc. ft./hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2.

Compliance with the ton/yr emission limitation shall be determined by multiplying the lb/hr value derived above by 8760 and dividing by 2000.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4, and 7E.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318001287 Emissions Unit ID: P024 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
0.95 mmBtu/hr natural gas-fired wastewater/oil Evaporator No. 1.	OAC rule 3745-31-05 (PTI 13-3228)	Organic compound emissions shall not exceed 2.2 lbs/hr and 9.6 tons/yr.

Visible particulate emissions from any stack shall not exceed 5% opacity as a 6-minute average.

See Sections B.I.2.a through B.I.2.c below.

2. **Additional Terms and Conditions**

- a. The permittee shall employ only natural gas to fire the evaporator burner.

- b. The permittee shall not employ photochemically reactive materials in this emissions unit.
- c. The organic compound lb/hr emission limitation specified in Section B.I.1 reflects the emissions unit's potential to emit; therefore, there are no additional monitoring, record keeping or reporting requirements associated with this emission limitation.

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. Emission Limitations:
 - Organic compound emissions shall not exceed 2.2 lbs/hr and 9.6 tons/yr.
 - Applicable Compliance Method:
Compliance with the lb/hr emission limitation shall be determined by summing the emissions from natural gas combustion and evaporation. For the emissions from natural gas combustion, multiply an emission factor of 5.3 lbs/mmcf. ft. by the emissions unit's maximum hourly fuel consumption rate (0.95 mmcf. ft./hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2. For the emissions from evaporation, multiply an emission factor of 0.062 lb/gallon of wastewater processed by the emissions unit's maximum hourly wastewater processing rate (35 gallons/hr). This emission factor was established based upon material balance calculations.
 - Compliance with the ton/yr emission limitation shall be determined by multiplying the lb/hr value derived above by 8760 and dividing by 2000.
 - If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4, and 25.
- 2. Emission Limitation:
 - Visible particulate emissions from any stack shall not exceed 5% opacity as a 6-minute average.
 - Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1318001287 Emissions Unit ID: P903 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
21,000 lbs/hr horizontal, inclined, natural gas-fired, rotary aluminum scrap dryer equipped with hoods, ducts, an 16 mmBtu/hr afterburner and a 93,153 acfm (at 219 degrees F.) 3-compartment fabric filter to capture and control both process stack and fugitive emissions.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)(1)	Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	Employ reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.
		See Section A.I.2.a below.
	OAC rule 3745-17-11(B)	Particulate emissions shall not exceed 19.9 lbs/hr.

2. Additional Terms and Conditions

- a. The permittee shall observe and implement the following operation and maintenance practices in order to minimize or eliminate visible emissions of fugitive dust and comply with the requirements of OAC rule 3745-17-08:
 - (a)
 - i. The seals around the dryer shall be maintained in proper working order to ensure that fugitive emissions are sufficiently minimized or eliminated at all points.
 - ii. The material feed rate and drum rotation speed must be properly maintained to ensure that no visible emissions of fugitive dust are generated at the charging or the product discharge end.
 - iii. Precautions (maintain necessary stream velocities, clean out deposits of fines if any, etc.) shall be taken on a regular basis to prevent accumulation of fines and plugging of ducts and scrap pathways, especially when extra fine scrap is being processed.
 - iv. Procedures (specify procedures) for the unloading and disposal of the dust collected in the fabric filter and for the removal of any dust that may become accumulated underneath the fabric filter shall be employed.
 - v. The afterburner and fabric filter control system shall be maintained and operated at a volumetric flow rate sufficient to create enough draft to adequately capture the particulate emissions from this emissions unit.

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II. Operational Restrictions

- 1. The pressure drop across the fabric filter shall be maintained within the pressure drop range established during the most recent emission test that demonstrated that the emissions unit was in compliance.
- 2. The average combustion temperature within the afterburner, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall properly install, operate and maintain equipment to monitor the pressure drop across the fabric filter while this emissions unit is in operation. The monitoring device shall be capable of accurately measuring the desired parameter. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
- 2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the afterburner when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications

deemed necessary by the permittee.

3. The permittee shall collect and record the following information for each day:
 - a. All 3-hour blocks of time during which the average combustion temperature within the afterburner, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
 - c. The permittee shall record the pressure drop across the fabric filter at the beginning of each shift when the emissions unit is in operation.
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the capture points and stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. All periods of time during which the pressure drop across the fabric filter did not comply with the allowable range established during the most recent emission test that demonstrated that the emissions unit was in compliance.
 - b. All 3-hour blocks of time during which the average combustion temperature within the afterburner, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent performance test that demonstrated the emissions unit was in compliance.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the capture points and stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
 - a. Emission testing shall be conducted to demonstrate compliance with the allowable particulate mass emission limitation of 19.9 lbs/hr.
 - b. The emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit renewal.
 - c. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

- d. The following test methods shall be employed to demonstrate compliance with the allowable particulate mass emission limitation: 40 CFR Part 60, Appendix A, Methods 1 through 5. If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318001287 Emissions Unit ID: P903 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
21,000 lbs/hr horizontal, inclined, natural gas-fired, rotary aluminum scrap dryer equipped with hoods, ducts, an 16 mmBtu/hr afterburner and a 93,153 acfm (at 219 degrees F.) 3-compartment fabric filter to capture and control both process stack and fugitive emissions.	OAC rule 3745-31-05 (PTI 13-1528)	Particulate emissions shall not exceed 0.01 grain per ds cf of exhaust gases from the fabric filter stack. See Sections B.I.2.a and B.I.2.b below.

2. **Additional Terms and Conditions**

- a. The permittee shall maintain a minimum of 10% of the total number of bags in the fabric filter in inventory at all times.

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II. **Operational Restrictions**

- 1. The permittee shall employ only natural gas to fire the dryer and the afterburner.

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. Emission Limitation:
 Particulate emissions shall not exceed 0.01 grain per dscf of exhaust gases from the fabric filter stack.

 Applicable Compliance Method:
 Compliance with this emission limitation shall be demonstrated through the emission testing required pursuant to Section A.V.4.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318001287 Emissions Unit ID: P912 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
115-ton aluminum holding reverberatory furnace (Furnace No. 2) equipped with a completely enclosed hood with doors sufficiently large for the charging front-end loader to drive in and charge material into the charging well. This hood captures all emissions (as determined by tests) generated by charging, fluxing, skimming, demagging and degassing operations. A blower draws these emissions from the top of the hood and discharges them into a 75,000 acfm (at 200 degrees F.) fabric filter shared by Furnaces Nos. 2 and 4. Furnace No. 2 has two natural gas-fired burners with a maximum total heat input capacity of 24 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)(1)	Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	Employ reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Sections A.I.2.a through A.I.2.d below. Particulate emissions shall not exceed 9.12 lbs/hr.
Demagging and degassing of the molten aluminum is performed using the Metallics demagging system which consists of injecting gaseous chlorine into the molten aluminum stream at the discharge of the	OAC rule 3745-17-11(B)(1)	

pump. The molten aluminum is recirculated in the furnace and demagged until the desired magnesium content is obtained.

2. **Additional Terms and Conditions**

- a. The permittee shall take all precautions necessary to prevent the entry of any material into the furnace combustion chamber that could produce excessive fumes.
- b. The two large front doors of the enclosed hood shall be kept closed at all times during the entire melting, fluxing, skimming and other fume-producing operations.
- c. The skim window shall be kept closed at all times while smoke is generating in the charging well, except during skimming and mixing.
- d. This facility shall employ procedures for unloading and disposal of the dust collected in the fabric filter to minimize or eliminate visible emissions of any dust that may become accumulated underneath the fabric filter, including expeditious elimination of the cause of the dust spill and removal of the dust.
- e. This emissions unit and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

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II. **Operational Restrictions**

1. The maximum charging process weight rate shall not exceed the maximum charging process weight rate per heat established during the most recent emission test that demonstrated that the emissions unit was in compliance. The charging process weight rate is the sum total of aluminum scrap, alloying agents and flux charged to the furnace.
2. The amount of dirty (contaminated with oil, grease, plastic, paint, etc.) aluminum scrap charged to the furnace per heat shall not exceed the percentage of the charging process weight rate established during the most recent emission test that demonstrated that the emissions unit was in compliance.
3. The chlorine injection rate into the Metallurgy pump shall not exceed the injection rate established during the most recent emission test that demonstrated that the emissions unit was in compliance.
4. The hot dross skimmings, skimmed from the charging well, shall be retained in a totally enclosed area until sufficiently cooled (with unforced ambient air cooling only). The totally enclosed area shall be evacuated to the fabric filter in order to capture and control the fugitive emissions from the hot dross skimmings.
5. The pressure drop across the fabric filter shall be maintained within the pressure drop range (in inches of water column) established during the most recent emission test that demonstrated that the emissions unit was in compliance.

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III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly install, operate and maintain equipment to monitor the pressure drop across the fabric filter when the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).
2. The permittee shall properly install, operate and maintain equipment to monitor the chlorine injection rate into the Metallurgy pump when the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).
3. The permittee shall collect and record the following information for each day:
 - a. the pressure drop across the fabric filter at the beginning of each shift when the emissions unit is in operation;
 - b. the chlorine injection rate into the Metallurgy pump at the beginning of each shift when the emissions unit is in operation;
 - c. the identification number of each heat;
 - d. the starting and ending times of each heat;
 - e. the date and hours of furnace operation; and
 - f. the net weight and type of scrap and percent dirty scrap in the scrap and materials charged in each heat.
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the capture points and stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range when the emissions unit was in operation;
 - b. any heat during which the maximum charging process weight rate was exceeded;
 - c. any heat during which the percent dirty scrap in the total charging process weight rate was exceeded;
 - d. any periods of time when the hot dross skimmings were not retained in a totally enclosed area until sufficiently cooled; and
 - e. any exceedances of the chlorine injection rate when the emissions unit was in operation.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the capture points and stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:
Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:
Particulate emissions shall not exceed 9.12 lbs/hr.

Applicable Compliance Method:
The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 9.12 lbs/hr in accordance with the following requirements:

The particulate emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit renewal.

Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10). If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
 - d. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s).

Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318001287 Emissions Unit ID: P912 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
115-ton aluminum holding reverberatory furnace (Furnace No. 2) equipped with a completely enclosed hood with doors sufficiently large for the charging front-end loader to drive in and charge material into the charging well. This hood captures all emissions (as determined by tests) generated by charging, fluxing, skimming, demagging and degassing operations. A blower draws these emissions from the top of the hood and discharges them into a 75,000 acfm (at 200 degrees F.) fabric filter shared by Furnaces Nos. 2 and 4. Furnace No. 2 has two natural gas-fired burners with a maximum total heat input capacity of 24 mmBtu/hr.	OAC rule 3745-31-05 (PTI 13-2327)	Particulate emissions from the fabric filter stack serving this emissions unit shall not exceed 0.01 gr/dscf.** Particulate emissions from the combustion stack serving this emissions unit shall not exceed 2.99 lbs/hr. There shall be no visible emissions (0% opacity, as a 6-minute average) from the fabric filter and combustion stacks serving this emissions unit. There shall be no visible fugitive particulate emissions from any part of the emissions unit or control equipment.

Demagging and degassing of the molten aluminum is performed using the Metallics demagging system which consists of injecting gaseous chlorine into the molten aluminum stream at the discharge of the pump. The molten aluminum is recirculated in the furnace and demagged until the desired magnesium content is obtained.

2. **Additional Terms and Conditions**

- a. ** The fabric filter controls particulate emissions from emissions units P912 and P913. The 0.01 gr/dscf emission limitation is equivalent to 2.57 lbs/hr when only one furnace is in operation; and 5.15 lbs/hr when both furnaces are operating simultaneously.
- b. This facility shall maintain an adequate supply of fabric filter spare parts, or immediate access to spare

parts and a minimum of 10% of the total number of bags in the fabric filter in inventory at all times or shall maintain immediate access to, or availability of such replacement bags from a local supplier.

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II. Operational Restrictions

1. The permittee shall employ only natural gas to fire the furnace burners.

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III. Monitoring and/or Record Keeping Requirements

1. Regular tests, calibrations and maintenance work on the chlorine system shall be recorded in a hard-bound log book.

The permittee shall also maintain written monthly records of the following:

- a. inspections of the chlorine vaporizing system;
- b. inspections of the air packs;
- c. inspections of the B & C emergency repair kits; and
- d. safety meeting minutes concerning the safe handling of chlorine and the operation of the chlorine safety systems at the permittee's facility.

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:
There shall be no visible emissions (0% opacity, as a 6-minute average) from the fabric filter and combustion stacks serving this emissions unit.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:
There shall be no visible fugitive particulate emissions from any part of the emissions unit or control equipment.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

- c. Emission Limitations:
Particulate emissions from the fabric filter stack serving this emissions unit shall not exceed 0.01 gr/dscf (2.57 lbs/hr).

Particulate emissions from the combustion stack serving this emissions unit shall not exceed 2.99 lbs/hr.

Applicable Compliance Method:
The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission limitations of 0.01 gr/dscf (2.57 lbs/hr) for the fabric filter stack and 2.99 lbs/hr for the combustion stack in accordance with the requirements specified in Sections A.V.1.c and A.V.1.d.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1318001287 Emissions Unit ID: P913 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
115-ton aluminum holding reverberatory furnace (Furnace No. 4) equipped with a completely enclosed hood with doors sufficiently large for the charging front-end loader to drive in and charge material into the charging well. This hood captures all emissions (as determined by tests) generated by charging, fluxing, skimming, demagging and degassing operations. A blower draws these emissions from the top of the hood and discharges them into a 75,000 acfm (at 200 degrees F.) fabric filter shared by Furnaces Nos. 2 and 4. Furnace No. 2 has two natural gas-fired burners with a maximum total heat input capacity of 24 mmBtu/hr.	OAC rule 3745-17-07(A) OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average. Employ reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Sections A.I.2.a through A.I.2.d below. Particulate emissions shall not exceed 9.12 lbs/hr.
Demagging and degassing of the molten aluminum is performed using the Metallics demagging system which consists of injecting gaseous chlorine into the molten aluminum stream at the discharge of the pump. The molten aluminum is recirculated in the furnace and demagged until the desired magnesium content is obtained.	OAC rule 3745-17-11(B)(1)	

2. Additional Terms and Conditions

- a. The permittee shall take all precautions necessary to prevent the entry of any material into the furnace combustion chamber that could produce excessive fumes.
- b. The two large front doors of the enclosed hood shall be kept closed at all times during the entire melting, fluxing, skimming and other fume-producing operations.
- c. The skim window shall be kept closed at all times while smoke is generating in the charging well, except during skimming and mixing.
- d. This facility shall employ procedures for unloading and disposal of the dust collected in the fabric filter to minimize or eliminate visible emissions of any dust that may become accumulated underneath the fabric filter, including expeditious elimination of the cause of the dust spill and removal of the dust.
- e. This emissions unit and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

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II. Operational Restrictions

1. The maximum charging process weight rate shall not exceed the maximum charging process weight rate per heat established during the most recent emission test that demonstrated that the emissions unit was in compliance. The charging process weight rate is the sum total of aluminum scrap, alloying agents and flux

charged to the furnace.

2. The amount of dirty (contaminated with oil, grease, plastic, paint, etc.) aluminum scrap charged to the furnace per heat shall not exceed the percentage of the charging process weight rate established during the most recent emission test that demonstrated that the emissions unit was in compliance.
3. The chlorine injection rate into the Metallurgy pump shall not exceed the injection rate established during the most recent emission test that demonstrated that the emissions unit was in compliance.
4. The hot dross skimmings, skimmed from the charging well, shall be retained in a totally enclosed area until sufficiently cooled (with unforced ambient air cooling only). The totally enclosed area shall be evacuated to the fabric filter in order to capture and control the fugitive emissions from the hot dross skimmings.
5. The pressure drop across the fabric filter shall be maintained within the pressure drop range (in inches of water column) established during the most recent emission test that demonstrated that the emissions unit was in compliance.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to monitor the pressure drop across the fabric filter when the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).
2. The permittee shall properly install, operate and maintain equipment to monitor the chlorine injection rate into the Metallurgy pump when the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).
3. The permittee shall collect and record the following information for each day:
 - a. the pressure drop across the fabric filter at the beginning of each shift when the emissions unit is in operation;
 - b. the chlorine injection rate into the Metallurgy pump at the beginning of each shift when the emissions unit is in operation;
 - c. the identification number of each heat;
 - d. the starting and ending times of each heat;
 - e. the date and hours of furnace operation; and
 - f. the net weight and type of scrap and percent dirty scrap in the scrap and materials charged in each heat.
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the capture points and stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify the following:
 - a. all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range when the emissions unit was in operation;
 - b. any heat during which the maximum charging process weight rate was exceeded;
 - c. any heat during which the percent dirty scrap in the total charging process weight rate was exceeded;
 - d. any periods of time when the hot dross skimmings were not retained in a totally enclosed area until sufficiently cooled; and
 - e. any exceedances of the chlorine injection rate when the emissions unit was in operation.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the capture points and stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be

submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:
Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:
Particulate emissions shall not exceed 9.12 lbs/hr.

Applicable Compliance Method:
The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 9.12 lbs/hr in accordance with the following requirements:

The particulate emission testing shall be conducted within 3 months after issuance of this permit and within 6 months prior to permit renewal.

Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(10). If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
 - d. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318001287 Emissions Unit ID: P913 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
115-ton aluminum holding reverberatory furnace (Furnace No. 4) equipped with a completely enclosed hood with doors sufficiently large for the charging front-end loader to drive in and charge material into the charging well. This hood captures all emissions (as determined by tests) generated by charging, fluxing, skimming, demagging and degassing operations. A blower draws these emissions from the top of the hood and discharges them into a 75,000 acfm (at 200 degrees F.) fabric filter shared by Furnaces Nos. 2 and 4. Furnace No. 2 has two natural gas-fired burners with a maximum total heat input capacity of 24 mmBtu/hr.	OAC rule 3745-31-05 (PTI 13-2327)	<p>Particulate emissions from the fabric filter stack serving this emissions unit shall not exceed 0.01 gr/dscf.**</p> <p>Particulate emissions from the combustion stack serving this emissions unit shall not exceed 2.99 lbs/hr.</p> <p>There shall be no visible emissions (0% opacity, as a 6-minute average) from the fabric filter and combustion stacks serving this emissions unit.</p> <p>There shall be no visible fugitive particulate emissions from any part of the emissions unit or control equipment.</p>

2. **Additional Terms and Conditions**
 - a. Demagging and degassing of the molten aluminum is performed using the Metallics demagging system which consists of injecting gaseous chlorine into the molten aluminum stream at the discharge of the pump. The molten aluminum is recirculated in the furnace and demagged until the desired magnesium content is obtained.

2. Additional Terms and Conditions

- a. ** The fabric filter controls particulate emissions from emissions units P912 and P913. The 0.01 gr/dscf emission limitation is equivalent to 2.57 lbs/hr when only one furnace is in operation; and 5.15 lbs/hr when both furnaces are operating simultaneously.
- b. This facility shall maintain an adequate supply of fabric filter spare parts, or immediate access to spare parts and a minimum of 10% of the total number of bags in the fabric filter in inventory at all times or shall maintain immediate access to, or availability of such replacement bags from a local supplier.

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II. Operational Restrictions

1. The permittee shall employ only natural gas to fire the furnace burners.

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III. Monitoring and/or Record Keeping Requirements

1. Regular tests, calibrations and maintenance work on the chlorine system shall be recorded in a hard-bound log book.

The permittee shall also maintain written monthly records of the following:

- a. inspections of the chlorine vaporizing system;
- b. inspections of the air packs;
- c. inspections of the B & C emergency repair kits; and
- d. safety meeting minutes concerning the safe handling of chlorine and the operation of the chlorine safety systems at the permittee's facility.

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section B.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
There shall be no visible emissions (0% opacity, as a 6-minute average) from the fabric filter and combustion stacks serving this emissions unit.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9, and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:
There shall be no visible fugitive particulate emissions from any part of the emissions unit or control equipment.

Applicable Compliance Method:
Compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.
 - c. Emission Limitations:
Particulate emissions from the fabric filter stack serving this emissions unit shall not exceed 0.01 gr/dscf (2.57 lbs/hr).

Particulate emissions from the combustion stack serving this emissions unit shall not exceed 2.99 lbs/hr.

Applicable Compliance Method:
The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission limitations of 0.01 gr/dscf (2.57 lbs/hr) for the fabric filter stack and 2.99 lbs/hr for the combustion stack in accordance with the requirements specified in Sections A.V.1.c and A.V.1.d.

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VI. **Miscellaneous Requirements**

1. None