

Facility ID: 1667060002 Issuance type: Final State Permit To Operate

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 II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

- [Go to Part II for Emissions Unit F001](#)
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Facility ID: 1667060002 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
F001 - Molten metal pouring (magnesium & aluminum)	OAC rule 3745-17-07(A)	20% opacity as a 3-minute average
	OAC rule 3745-17-08(B)	See A.2.a. below.

2. Additional Terms and Conditions

- (a) This facility is located in an appendix A area, therefore paragraph B of OAC rule 3745-17-08 does apply. The permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by employing best available control measures. These measures shall include, but not be limited to, the following:
 - i. The installation and use of hoods, fans and other equipment to adequately enclose, contain, capture and vent the fugitive dust.
 - ii. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below. Ohio EPA may require additional control measures at any or all operations described above if deemed necessary based on observed visible emissions.

B. Operational Restrictions

1. None

C. 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 fugitive particulate emissions escaping from the building containing 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 abnormal visible emission incident.

- e. Any corrective actions taken to eliminate the abnormal visible emissions
- 2. If any visible emissions in excess of 20 percent opacity are observed, corrective actions shall be employed to eliminate any visible emissions in excess of 20 percent opacity, these actions shall also be noted in the operations log.
- D. Reporting Requirements**
 - 1. The permittee shall submit deviation (excursion) reports which identify:
 - a. All days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit.
 - b. Visible emissions in excess of 20 percent opacity.
 - c. Describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions, or visible emissions greater than 5 percent opacity.
 - 2. These deviation (excursion) reports shall be submitted in accordance with the requirements specified in General Term and Condition A.2 of this permit.
- E. Testing Requirements**
 - 1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-03(B)(3).
For purposes of determining compliance with the requirements of paragraph OAC rule 17-08 (B), the director shall consider a control measure to be adequate if it complies with the following:
 - (i) The visible particulate emission limitation(s) contained in rule 3745-17-07 of the Administrative Code;
 - (ii) If applicable, the control requirements contained in paragraph (B) of OAC rule 3745-17-08; and
 - (iii) The definition of reasonably available control measures in paragraph (B)(15) of OAC rule 3745-17-01.
- F. Miscellaneous Requirements**
 - 1. None

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Facility ID: 1667060002 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
F002 - Casting knockout station	OAC rule 3745-17-07(A)	20% opacity as a 3-minute average
	OAC rule 3745-17-08(B)	See A.2.a. below.

2. Additional Terms and Conditions

- (a) This facility is located in an appendix A area, therefore paragraph B of OAC rule 3745-17-08 does apply.

The permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by employing best available control measures. These measures shall include, but not be limited to, the following:

- i. The installation and use of hoods, fans and other equipment to adequately enclose, contain, capture and vent the fugitive dust.
- ii. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below. Ohio EPA may require additional control measures at any or all operations described above if deemed necessary based on observed visible emissions.

B. Operational Restrictions

1. None

C. 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 fugitive particulate emissions escaping from the building containing 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 abnormal visible emission incident.
 - e. Any corrective actions taken to eliminate the abnormal visible emissions
2. If any visible emissions in excess of 20 percent opacity are observed, corrective actions shall be employed to eliminate any visible emissions in excess of 20 percent opacity, these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify:
 - a. All days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit.
 - b. Visible emissions in excess of 20 percent opacity.
 - c. Describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions, or visible emissions greater than 5 percent opacity.
2. These deviation (excursion) reports shall be submitted in accordance with the requirements specified in General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:
20% opacity as a 3-minute average
Applicable Compliance Method:
Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-03(B)(3).
For purposes of determining compliance with the requirements of paragraph OAC rule 17-08 (B), the director shall consider a control measure to be adequate if it complies with the following:
 - (i) The visible particulate emission limitation(s) contained in rule 3745-17-07 of the Administrative Code;
 - (ii) If applicable, the control requirements contained in paragraph (B) of OAC rule 3745-17-08; and
 - (iii) The definition of reasonably available control measures in paragraph (B)(15) of OAC rule 3745-17-01.

F. Miscellaneous Requirements

1. None

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Facility ID: 1667060002 Emissions Unit ID: F007 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
F007 - NG fired melting furnace #1	OAC rule 3745-17-07(A)	20% opacity as a 3-minute average
	OAC rule 3745-17-08 (B)	See A.2.a. below.

2. Additional Terms and Conditions

- (a) This facility is located in an appendix A area, therefore paragraph B of OAC rule 3745-17-08 does apply. The permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by employing best available control measures. These measures shall include, but not be limited to, the following:
 - i. The installation and use of hoods, fans and other equipment to adequately enclose, contain, capture and vent the fugitive dust.
 - ii. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below. Ohio EPA may require additional control measures at any or all operations described above if deemed necessary based on observed visible emissions.

B. Operational Restrictions

1. The magnesium melting furnace shall be charged with pure bar stock and dry, sawed-off pieces of solid magnesium. Magnesium chips or turnings from machining and/or materials bearing oil, grease, paint, or paper shall not be employed.
2. The permittee shall employ only natural gas as a fuel in this emissions unit.

C. 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 fugitive particulate emissions escaping from the building containing 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 abnormal visible emission incident.
 - e. Any corrective actions taken to eliminate the abnormal visible emissions
2. If any visible emissions in excess of 20 percent opacity are observed, corrective actions shall be employed to eliminate any visible emissions in excess of 20 percent opacity, these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify:
 - a. All days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit.
 - b. Visible emissions in excess of 20 percent opacity.
 - c. Describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions, or visible emissions greater than 5 percent opacity.
2. These deviation (excursion) reports shall be submitted in accordance with the requirements specified in General

Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-03(B)(3).
For purposes of determining compliance with the requirements of paragraph OAC rule 17-08 (B), the director shall consider a control measure to be adequate if it complies with the following:

- (i) The visible particulate emission limitation(s) contained in rule 3745-17-07 of the Administrative Code;
- (ii) If applicable, the control requirements contained in paragraph (B) of OAC rule 3745-17-08; and
- (iii) The definition of reasonably available control measures in paragraph (B)(15) of OAC rule 3745-17-01.

F. Miscellaneous Requirements

1. None

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Facility ID: 1667060002 Emissions Unit ID: F011 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
F011 - NG fired melting furnace #2	OAC rule 3745-17-07(A)	20% opacity as a 3-minute average
	OAC rule 3745-17-08(B)	See A.2.a. below.

2. Additional Terms and Conditions

- (a) This facility is located in an appendix A area, therefore paragraph B of OAC rule 3745-17-08 does apply. The permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by employing best available control measures. These measures shall include, but not be limited to, the following:
 - i. The installation and use of hoods, fans and other equipment to adequately enclose, contain, capture and vent the fugitive dust.
 - ii. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below. Ohio EPA may require additional control measures at any or all operations described above if deemed necessary based on observed visible emissions.

B. Operational Restrictions

1. The magnesium melting furnace shall be charged with pure bar stock and dry, sawed-off pieces of solid magnesium. Magnesium chips or turnings from machining and/or materials bearing oil, grease, paint, or paper

shall not be employed.

2. The permittee shall employ only natural gas as a fuel in this emissions unit.

C. 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 fugitive particulate emissions escaping from the building containing 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 abnormal visible emission incident.
 - e. Any corrective actions taken to eliminate the abnormal visible emissions
2. If any visible emissions in excess of 20 percent opacity are observed, corrective actions shall be employed to eliminate any visible emissions in excess of 20 percent opacity, these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify:
 - a. All days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit.
 - b. Visible emissions in excess of 20 percent opacity.
 - c. Describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions, or visible emissions greater than 5 percent opacity.
2. These deviation (excursion) reports shall be submitted in accordance with the requirements specified in General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-03(B)(3).
For purposes of determining compliance with the requirements of paragraph OAC rule 17-08 (B), the director shall consider a control measure to be adequate if it complies with the following:
 - (i) The visible particulate emission limitation(s) contained in rule 3745-17-07 of the Administrative Code;
 - (ii) If applicable, the control requirements contained in paragraph (B) of OAC rule 3745-17-08; and
 - (iii) The definition of reasonably available control measures in paragraph (B)(15) of OAC rule 3745-17-01.

F. Miscellaneous Requirements

1. None

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Facility ID: 1667060002 Emissions Unit ID: F012 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
F012 - NG fired melting furnace #3	OAC rule 3745-17-07(A)	20% opacity as a 3-minute average
	OAC rule 3745-17-08(B)	See A.2.a. below.

2. Additional Terms and Conditions

- (a) This facility is located in an appendix A area, therefore paragraph B of OAC rule 3745-17-08 does apply. The permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by employing best available control measures. These measures shall include, but not be limited to, the following:
 - i. The installation and use of hoods, fans and other equipment to adequately enclose, contain, capture and vent the fugitive dust.
 - ii. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below. Ohio EPA may require additional control measures at any or all operations described above if deemed necessary based on observed visible emissions.

B. Operational Restrictions

1. The magnesium melting furnace shall be charged with pure bar stock and dry, sawed-off pieces of solid magnesium. Magnesium chips or turnings from machining and/or materials bearing oil, grease, paint, or paper shall not be employed.
2. The permittee shall employ only natural gas as a fuel in this emissions unit.

C. 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 fugitive particulate emissions escaping from the building containing 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 abnormal visible emission incident.
 - e. Any corrective actions taken to eliminate the abnormal visible emissions
2. If any visible emissions in excess of 20 percent opacity are observed, corrective actions shall be employed to eliminate any visible emissions in excess of 20 percent opacity, these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify:
 - a. All days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit.
 - b. Visible emissions in excess of 20 percent opacity.
 - c. Describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions, or visible emissions greater than 5 percent opacity.
2. These deviation (excursion) reports shall be submitted in accordance with the requirements specified in General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:
20% opacity as a 3-minute average
Applicable Compliance Method:
Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-03(B)(3). For purposes of determining compliance with the requirements of paragraph OAC rule 17-08 (B), the director shall consider a control measure to be adequate if it complies with the following:

- (i) The visible particulate emission limitation(s) contained in rule 3745-17-07 of the Administrative Code;
- (ii) If applicable, the control requirements contained in paragraph (B) of OAC rule 3745-17-08; and
- (iii) The definition of reasonably available control measures in paragraph (B)(15) of OAC rule 3745-17-01.

F. Miscellaneous Requirements

- 1. None

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
F013 - NG fired melting furnace #4	OAC rule 3745-17-07(A)	20% opacity as a 3-minute average
	OAC rule 3745-17-08(B)	See A.2.a. below.

2. Additional Terms and Conditions

- (a) This facility is located in an appendix A area, therefore paragraph B of OAC rule 3745-17-08 does apply. The permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by employing best available control measures. These measures shall include, but not be limited to, the following:
 - i. The installation and use of hoods, fans and other equipment to adequately enclose, contain, capture and vent the fugitive dust.
 - ii. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below. Ohio EPA may require additional control measures at any or all operations described above if deemed necessary based on observed visible emissions.

B. Operational Restrictions

- 1. The magnesium melting furnace shall be charged with pure bar stock and dry, sawed-off pieces of solid magnesium. Magnesium chips or turnings from machining and/or materials bearing oil, grease, paint, or paper shall not be employed.
- 2. The permittee shall employ only natural gas as a fuel in this emissions unit.

C. 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 fugitive particulate emissions escaping from the building containing 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 abnormal visible emission incident.
- e. Any corrective actions taken to eliminate the abnormal visible emissions
- 2. If any visible emissions in excess of 20 percent opacity are observed, corrective actions shall be employed to eliminate any visible emissions in excess of 20 percent opacity, these actions shall also be noted in the operations log.
- D. Reporting Requirements**
- 1. The permittee shall submit deviation (excursion) reports which identify:
 - a. All days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit.
 - b. Visible emissions in excess of 20 percent opacity.
 - c. Describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions, or visible emissions greater than 5 percent opacity.
- 2. These deviation (excursion) reports shall be submitted in accordance with the requirements specified in General Term and Condition A.2 of this permit.
- E. Testing Requirements**
- 1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:
20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-03(B)(3). For purposes of determining compliance with the requirements of paragraph OAC rule 17-08 (B), the director shall consider a control measure to be adequate if it complies with the following:
 - (i) The visible particulate emission limitation(s) contained in rule 3745-17-07 of the Administrative Code;
 - (ii) If applicable, the control requirements contained in paragraph (B) of OAC rule 3745-17-08; and
 - (iii) The definition of reasonably available control measures in paragraph (B)(15) of OAC rule 3745-17-01.
- F. Miscellaneous Requirements**
- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1667060002 Emissions Unit ID: F014 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
F014 - NG fired melting furnace #5	OAC rule 3745-17-07(A)	20% opacity as a 3-minute average
	OAC rule 3745-17-08(B)	See A.2.a. below.

- 2. **Additional Terms and Conditions**

- (a) This facility is located in an appendix A area, therefore paragraph B of OAC rule 3745-17-08 does apply. The permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by employing best available control measures. These measures shall include, but not be limited to, the following:
- i. The installation and use of hoods, fans and other equipment to adequately enclose, contain, capture and vent the fugitive dust.
 - ii. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below. Ohio EPA may require additional control measures at any or all operations described above if deemed necessary based on observed visible emissions.

B. Operational Restrictions

1. The magnesium melting furnace shall be charged with pure bar stock and dry, sawed-off pieces of solid magnesium. Magnesium chips or turnings from machining and/or materials bearing oil, grease, paint, or paper shall not be employed.
2. The permittee shall employ only natural gas as a fuel in this emissions unit.

C. 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 fugitive particulate emissions escaping from the building containing 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 abnormal visible emission incident.
 - e. Any corrective actions taken to eliminate the abnormal visible emissions
2. If any visible emissions in excess of 20 percent opacity are observed, corrective actions shall be employed to eliminate any visible emissions in excess of 20 percent opacity, these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify:
 - a. All days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit.
 - b. Visible emissions in excess of 20 percent opacity.
 - c. Describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions, or visible emissions greater than 5 percent opacity.
2. These deviation (excursion) reports shall be submitted in accordance with the requirements specified in General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:
20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-03(B)(3). For purposes of determining compliance with the requirements of paragraph OAC rule 17-08 (B), the director shall consider a control measure to be adequate if it complies with the following:
 - (i) The visible particulate emission limitation(s) contained in rule 3745-17-07 of the Administrative Code;
 - (ii) If applicable, the control requirements contained in paragraph (B) of OAC rule 3745-17-08; and
 - (iii) The definition of reasonably available control measures in paragraph (B)(15) of OAC rule 3745-17-01.

F. Miscellaneous Requirements

1. None

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Facility ID: 1667060002 Emissions Unit ID: F015 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
F015 - NG fired melting furnace #6	OAC rule 3745-17-07(A)	20% opacity as a 3-minute average
	OAC rule 3745-17-08(B)	See A.2.a. below.

2. Additional Terms and Conditions

- (a) This facility is located in an appendix A area, therefore paragraph B of OAC rule 3745-17-08 does apply. The permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by employing best available control measures. These measures shall include, but not be limited to, the following:
 - i. The installation and use of hoods, fans and other equipment to adequately enclose, contain, capture and vent the fugitive dust.
 - ii. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance, as described below. Ohio EPA may require additional control measures at any or all operations described above if deemed necessary based on observed visible emissions.

B. Operational Restrictions

1. The magnesium melting furnace shall be charged with pure bar stock and dry, sawed-off pieces of solid magnesium. Magnesium chips or turnings from machining and/or materials bearing oil, grease, paint, or paper shall not be employed.
2. The permittee shall employ only natural gas as a fuel in this emissions unit.

C. 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 fugitive particulate emissions escaping from the building containing 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 abnormal visible emission incident.
 - e. Any corrective actions taken to eliminate the abnormal visible emissions
2. If any visible emissions in excess of 20 percent opacity are observed, corrective actions shall be employed to eliminate any visible emissions in excess of 20 percent opacity, these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify:
 - a. All days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit.
 - b. Visible emissions in excess of 20 percent opacity.

- c. Describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions, or visible emissions greater than 5 percent opacity.
 2. These deviation (excursion) reports shall be submitted in accordance with the requirements specified in General Term and Condition A.2 of this permit.
- E. **Testing Requirements**
 1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-03(B)(3).
For purposes of determining compliance with the requirements of paragraph OAC rule 17-08 (B), the director shall consider a control measure to be adequate if it complies with the following:
 - (i) The visible particulate emission limitation(s) contained in rule 3745-17-07 of the Administrative Code;
 - (ii) If applicable, the control requirements contained in paragraph (B) of OAC rule 3745-17-08; and
 - (iii) The definition of reasonably available control measures in paragraph (B)(15) of OAC rule 3745-17-01.
- F. **Miscellaneous Requirements**
 1. None