

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

#### **GENERAL PERMIT CONDITIONS**

#### **TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

#### **NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

#### **CONSTRUCTION OF NEW SOURCES**

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

### **PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

### **PUBLIC DISCLOSURE**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

### **BEST AVAILABLE TECHNOLOGY**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

### **PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

### **SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION**

3

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

4

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Globe Metallurgical Inc** located in **Washington** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Cont'd</u>	<u>Source Identification Description</u>
F011		Gravel screener
	F012	Coal screener
		F013

Facility Name: **Globe Metallurgical Inc**  
 Application Number: **06-5587**  
 Date: **September 09, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
Railcar unloader	BAT Determination Enclosures sufficient to minimize or eliminate visible emissions of fugitive dust.	Enclosures sufficient to minimize or eliminate visible emissions of fugitive dust.	eliminate visible emissions of fugitive dust.	Applicable Federal & OAC Rules 3745-31-05
				3745-17-07
				3745-17-08
		Enclosures sufficient to minimize or		

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
3745-31-05		Permit Allowable Mass Emissions and/or Control/Usage Requirements	control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (See Section A.2.)	eliminate visible emissions of fugitive dust. (See Section A.2.)
	3745-17-07	Visible emissions of fugitive dust shall not exceed 20 percent as a 3-minute average. 1.2 TPY PM/PM <sub>10</sub> Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (See Section A.2.)	Equivalent to the limits established pursuant to OAC rule 3745-31-05.	Equivalent to the limits established pursuant to OAC rule 3745-31-05.
3745-17-07	3745-17-08	Equivalent to the limits established pursuant to OAC rule 3745-31-05.	Equivalent to the limits established pursuant to OAC rule 3745-31-05.	Equivalent to the limits established pursuant to OAC rule 3745-31-05.
3745-17-08		Equivalent to the limits established pursuant to OAC rule 3745-31-05.	Visible emissions of fugitive dust shall not exceed 20 percent as a 3-minute average. 0.4 TPY PM/PM <sub>10</sub> Best available control	
3745-31-05		Visible emissions of fugitive dust shall not exceed 20 percent as a 3-minute average. 2.4 TPY PM/PM <sub>10</sub> Best available control	measures that are sufficient to minimize or	

8

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM/PM <sub>10</sub>	4.0

**RECORD(S) RETENTION AND AVAILABILITY**

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Southeast District Office, 2195 Front Street, Logan, OH 43138.**

**WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

**MAINTENANCE OF EQUIPMENT**

This source 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.

**MALFUNCTION/ABATEMENT**

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Southeast District Office, 2195 Front Street, Logan, OH 43138.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

#### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**F011**

**A. Additional Terms and Conditions**

1. The maximum annual operating hours for emissions unit F011 shall not exceed 1,456 based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12-months of operation following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours
1	356
1-2	456
1-3	556
1-4	656
1-5	756
1-6	856
1-7	956
1-8	1,056
1-9	1,156
1-10	1,256
1-11	1,356
1-12	1,456

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

2. The permittee shall employ reasonably available control measures on the Gravel Screener for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain enclosures and good operating practices to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

## **B. Monitoring and Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the operating hours for each month; and,
  - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling 12-month summation of the operating hours.

Also, during the first 12 calendar months of operation following issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

2. The permittee shall perform daily checks, while the equipment is in operation, for any unusual visible emissions of fugitive dust from the emissions unit. A record of the necessary and completed corrective actions resulting from the daily checks shall be maintained by the permittee.

## **C. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels. These reports are due by the date described in Part 1 - General Terms and Conditions of this permit under section (A)(1).

The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month hours limitation.

2. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - a. reports of any required monitoring and/or recordkeeping information shall be submitted to the Ohio EPA, Southeast District

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

Office; and,

- b. quarterly written reports of (i) any deviations from federally enforceable emissions limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the Ohio EPA, Southeast District Office. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06.

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter.

The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

#### **D. Compliance Determination**

1. Compliance with the visible emission limitations identified above shall be determined in accordance with the following methods:

- a. Emission Limitation

20 percent opacity as a 3-minute average.

#### Applicable Compliance Method

Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

b. Emission Limitation

1.2 tons per year PM

Applicable Compliance Method

ESC =  $0.015 \text{ pound/ton} * 100 \text{ Tons/hour} * \text{actual hours per year} * 0.0005 \text{ Ton/pound} = \text{TPY from screening}$

EHP =  $0.00276 \text{ pound/ton} * 100 \text{ Tons/hour} * \text{actual hours per year} * 0.0005 \text{ ton/pound} = \text{TPY from hopper loading}$

ESC + EHP = Total tons per year

ESC = emissions from screening, EHP = emissions from hopper loading

E. Miscellaneous Requirements

None.

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

## **F012**

### **A. Additional Terms and Conditions**

1. The maximum annual operating hours for emissions unit F012 shall not exceed 2,912 based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12-months of operation following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours
1	712
1-2	912
1-3	1,112
1-4	1,312
1-5	1,512
1-6	1,712
1-7	1,912
1-8	2,112
1-9	2,312
1-10	2,512
1-11	2,712
1-12	2,912

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

2. The permittee shall employ reasonably available control measures on the Coal Screener for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain enclosures and good operating practices to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

**B. Monitoring and Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the operating hours for each month; and,
  - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling 12-month summation of the operating hours.

Also, during the first 12 calendar months of operation following issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

2. The permittee shall perform daily checks, while the equipment is in operation, for any unusual visible emissions of fugitive dust from the emissions unit. A record of the necessary and completed corrective actions resulting from the daily checks shall be maintained by the permittee.

**C. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.
2. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - a. reports of any required monitoring and/or recordkeeping information shall be submitted to the Ohio EPA, Southeast District Office; and,

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

- b. quarterly written reports of (i) any deviations from federally enforceable emissions limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the Ohio EPA, Southeast District Office. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06.

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter.

The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

#### **D. Compliance Determination**

1. Compliance with the visible emission limitations identified above shall be determined in accordance with the following methods:

- a. Emission Limitation

20 percent opacity as a 3-minute average.

##### Applicable Compliance Method

Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

b. Emission Limitation

2.4 tons per year PM

Applicable Compliance Method

ESC =  $0.015 \text{ pound/ton} * 100 \text{ Tons/hour} * \text{actual hours per year} * 0.0005 \text{ Ton/pound} = \text{TPY from screening}$

EHP =  $0.00276 \text{ pound/ton} * 100 \text{ Tons/hour} * \text{actual hours per year} * 0.0005 \text{ ton/pound} * 0.5 \text{ control} = \text{TPY from hopper loading}$

ESC + EHP = Total tons per year

ESC = emissions from screening, EHP = emissions from hopper loading

E. Miscellaneous Requirements

None.

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

## **F013**

### **A. Additional Terms and Conditions**

1. The maximum annual operating hours for emissions unit F013 shall not exceed 2,912 based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12-months of operation following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

Month	Maximum Allowable Cumulative Operating Hours
1	712
1-2	912
1-3	1,112
1-4	1,312
1-5	1,512
1-6	1,712
1-7	1,912
1-8	2,112
1-9	2,312
1-10	2,512
1-11	2,712
1-12	2,912

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

2. The permittee shall employ reasonably available control measures on the Railcar Unloader for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain enclosures and good operating practices to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

**B. Monitoring and Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the operating hours for each month; and,
  - b. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling 12-month summation of the operating hours.

Also, during the first 12 calendar months of operation following issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

2. The permittee shall perform daily checks, while the equipment is in operation, for any unusual visible emissions of fugitive dust from the emissions unit. A record of the necessary and completed corrective actions resulting from the daily checks shall be maintained by the permittee.

**C. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.
2. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - a. reports of any required monitoring and/or recordkeeping information shall be submitted to the Ohio EPA, Southeast District Office; and,

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

- b. quarterly written reports of (i) any deviations from federally enforceable emissions limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the Ohio EPA, Southeast District Office. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06.

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter.

The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

#### **D. Compliance Determination**

1. Compliance with the visible emission limitations identified above shall be determined in accordance with the following methods:

- a. Emission Limitation

20 percent opacity as a 3-minute average.

Applicable Compliance Method

Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- b. Emission Limitation

0.4 ton per year PM

Applicable Compliance Method

ERC = 0.00127 pound/ton \* 100 Tons/hour \* actual hours

Facility Name: **Globe Metallurgical Inc**

Application Number: **06-5587**

Date: **September 09, 1999**

per year \* 0.0005 Ton/pound = TPY from railcar to conveyor drop point

ECS = 0.00127 pound/ton \* 100 Tons/hour \* actual hours per year \* 0.0005 ton/pound = TPY from hopper conveyor to storage pile drop point

ERC + ECS = Total tons per year

ERC = emissions from railcar to conveyor drop point, ECS = emissions from conveyor to storage pile drop point

**E. Miscellaneous Requirements**

None.