

Facility ID: 0302020300 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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Facility ID: 0302020300 Issuance type: Title V Draft Permit

## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. None

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Facility ID: 0302020300 Issuance type: Title V Draft Permit

### b State Only Enforceable Section

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

P008 - E-4 coreless induction furnace  
 P009 - sand & binder mixing (#1 Kloster Mixer)/ mold making  
 Z001 - pneumatic sand system  
 Z003 - E-3 ladle preheater #1  
 Z004 - E-3 ladle preheater #2  
 Z007 - casting stripping  
 Z009 - forge furnace #105  
 Z010 - forge furnace #106  
 Z011 - forge furnace #107  
 Z012 - forge furnace #108  
 Z016 - forge furnace #116  
 Z024 - hydraulic forging press  
 Z025 - induction building furnace #1  
 Z039 - induction building furnace #20  
 Z040 - induction building furnace #21  
 Z041 - selas furnace #3 w/ water quench  
 Z042 - selas furnace #4 w/ water quench  
 Z043 - 2 cryogenic tanks in induction hardening department  
 Z053 - selas furnace w/ quench (annealing bay)  
 Z054 - casting finishing - grinders and milling machine  
 Z056 - gravel parking lot  
 Z057 - slag pouring and cooling  
 Z058 - recycle water pond  
 Z059 - 5,000 gal oil storage tank #1  
 Z060 - 5,000 gal oil storage tank #2  
 Z061 - 10,000 gal oil storage tank  
 Z062 - forge furnace #112 (forging department)  
 Z063 - forge furnace #113 (forging department)  
 Z064 - forge furnace #114 (forging department)  
 Z065 - forge furnace #115 (forging department)  
 Z067 - induction building furnace #2  
 Z068 - induction building furnace #3  
 Z069 - induction building furnace #4  
 Z070 - foundry furnace #64 (annealing bay)  
 Z071 - mold oven (melting)  
 Z072 - mold oven #1 (machine shop)  
 Z073 - mold oven #4 (machine shop)

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.

The following insignificant emissions units are located at this facility:

P008 - E-4 coreless induction furnace  
 P009 - sand & binder mixing (#1 Kloster Mixer)/ mold making  
 Z001 - pneumatic sand system  
 Z003 - E-3 ladle preheater #1  
 Z004 - E-3 ladle preheater #2  
 Z007 - casting stripping  
 Z009 - forge furnace #105

Z010 - forge furnace #106

Z011 - forge furnace #107

Z012 - forge furnace #108

Z016 - forge furnace #116

Z024 - hydraulic forging press

Z025 - induction building furnace #1

Z039 - induction building furnace #20

Z040 - induction building furnace #21

Z041 - selas furnace #3 w/ water quench

Z042 - selas furnace #4 w/ water quench

Z043 - 2 cryogenic tanks in induction hardening department

Z053 - selas furnace w/ quench (annealing bay)

Z054 - casting finishing - grinders and milling machine

Z056 - gravel parking lot

Z057 - slag pouring and cooling

Z058 - recycle water pond

Z059 - 5,000 gal oil storage tank #1

Z060 - 5,000 gal oil storage tank #2

Z061 - 10,000 gal oil storage tank

Z062 - forge furnace #112 (forging department)

Z063 - forge furnace #113 (forging department)

Z064 - forge furnace #114 (forging department)

Z065 - forge furnace #115 (forging department)

Z067 - induction building furnace #2

Z068 - induction building furnace #3

Z069 - induction building furnace #4

Z070 - foundry furnace #64 (annealing bay)

Z071 - mold oven (melting)

Z072 - mold oven #1 (machine shop)

Z073 - mold oven #4 (machine shop)

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 P001](#)
- [Go to Part III for Emissions Unit P002](#)
- [Go to Part III for Emissions Unit P011](#)
- [Go to Part III for Emissions Unit P012](#)

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

Facility ID: 0302020300 Issuance type: Title V Draft Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 0302020300 Emissions Unit ID: P001 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>
4.6 tons per hour electric arc furnace w/ baghouse; unit E-1	OAC rule 3745-17-11(B)(1)	21.5 lbs particulate emissions (PE)/hr (see A.I.2.a)
	OAC rule 3745-17-07(A)	20% opacity, as a 6-minute average, except as provided by rule

**2. Additional Terms and Conditions**

- a. Emissions units P001 and P002 are subject to the "grouping" provisions of OAC rule 3745-17-11(A)(3). Therefore, the PE from emissions units P001 and P002 combined shall not exceed 21.5 lbs/hr.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 1 - 7 inches of water while the emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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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 baghouse while 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). The permittee shall record the pressure drop across the baghouse on a daily basis when the emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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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 baghouse did not comply with the allowable range specified above.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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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:

21.5 lbs PE/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the lbs PE/hr emission limitation through the emission testing specified in Section A.V.2 of the terms and conditions of this permit.

- b. Emission Limitation:  
20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method:  
OAC rule 3745-17-03(B)(1)

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. Since this emissions unit is not currently operating, the emission testing shall be conducted within 3 months after resuming operation and as determined necessary by the appropriate Ohio EPA District Office or local air agency.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

PE - Methods 1-5 of 40 CFR Part 60, Appendix A.

d. 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.

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 emission 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.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0302020300 Issuance type: Title V Draft Permit

[Go to the top of this document](#)

Facility ID: 0302020300 Emissions Unit ID: P001 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</u>
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**Measures**

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 0302020300 Issuance type: Title V Draft Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 0302020300 Emissions Unit ID: P002 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>
16.3 tons per hour electric arc furnace w/baghouse; unit E-2	OAC rule 3745-17-11(B)(1)	21.5 lbs particulate emissions (PE)/hr (see A.I.2.a)
	OAC rule 3745-17-07(A)	20% opacity, as a 6-minute average, except as provided by rule

2. **Additional Terms and Conditions**

- a. Emissions units P001 and P002 are subject to the "grouping" of OAC rule 3745-17-11(A)(3). Therefore, the PE from emissions units P001 and P002 combined shall not exceed 21.5 lbs/hr.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 1 - 7 inches of water while the emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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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 baghouse while 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). The permittee shall record the pressure drop across the baghouse on a daily basis when the emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**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 baghouse did not comply with the allowable range specified above.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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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:  
21.5 lbs PE/hr

Applicable Compliance Method:

The permittee may demonstrate compliance with the lbs PE/hr emission limitation through the emission testing specified in Section A.V.2 of the terms and conditions of this permit.

- b. Emission Limitation:  
20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

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

- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.

- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

PE - Methods 1-5 of 40 CFR Part 60, Appendix A.

- d. 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.

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 emission 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.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0302020300 Issuance type: Title V Draft Permit

[Go to the top of this document](#)

Facility ID: 0302020300 Emissions Unit ID: P002 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>
2. <b>Additional Terms and Conditions</b>			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 0302020300 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 0302020300 Emissions Unit ID: P011 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>
16.5 mmBtu/hr natural gas-fired forge furnace; forge furnace #119	OAC rule 3745-17-11(B)(1)	None, see A.I.2.a.
	OAC rule 3745-17-07(A)	None, see A.I.2.b.

**2. Additional Terms and Conditions**

- a. The uncontrolled mass rate of particulate emissions (PE)\* from this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate is equal to zero. "Process weight" is defined in OAC rule 3745-17-01(B)(14).
- (a) \* The burning of natural gas is the only source of PE from this emissions unit.
- b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**IV. Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**V. Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None

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

Facility ID: 0302020300 Issuance type: Title V Draft Permit

[Go to the top of this document](#)

**Facility ID: 0302020300 Emissions Unit ID: P011 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>
<b>2. Additional Terms and Conditions</b>		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

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

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**VI. Miscellaneous Requirements**

- 1. None

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

**Facility ID: 0302020300 Issuance type: Title V Draft Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 0302020300 Emissions Unit ID: P012 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>
16.5 mmBtu/hr natural gas-fired forge furnace; forge furnace #123	OAC rule 3745-17-11(B)(1)	None, see A.I.2.a.
	OAC rule 3745-17-07(A)	None, see A.I.2.b.

**2. Additional Terms and Conditions**

- a. The uncontrolled mass rate of particulate emissions (PE)\* from this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate is equal to zero. "Process weight" is defined in OAC rule 3745-17-01(B)(14).
- (a) \* The burning of natural gas is the only source of PE from this emissions unit.
- b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**V. Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0302020300 Issuance type: Title V Draft Permit

[Go to the top of this document](#)

Facility ID: 0302020300 Emissions Unit ID: P012 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>
2. <b>Additional Terms and Conditions</b>			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**IV. Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

**V. Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None