

Facility ID: 0637010000 Issuance type: Title V Proposed Permit

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

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

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

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

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

P003 - glass tube roll forming (1 through 3);
P005 - glass tube finishing equipment;
P006 - machine shop grinder;
P011 - tube collaring operation No. 94392;
P012 - biax cutter and glazer #2;
P013 - emergency generator;
Z001 - cullet storage;
Z002 - parts cleaner;
Z003 - abrasive blaster;
Z004 - roadways;
Z005 - hydraulic oil and lubricants; and
Z006 - standby pump.

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.

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- [Go to Part III for Emissions Unit P002](#)
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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0637010000 Emissions Unit ID: F001 Issuance type: Title V Proposed 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>
material handling - unloading controlled with B-1 baghouse and F-1 through F-8 baghouses	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11	The total particulate emissions from all of the baghouses and other stacks shall not exceed 49.0 lbs/hr.

2. Additional Terms and Conditions

- a. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rules 3745-17-07(B) and 3745-17-08(B) do not apply to the fugitive particulate emissions from the material handling-unloading operation.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

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

For emission points for which the daily checks show emissions that are representative of normal operation for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check of such emission point by the permittee or an Ohio EPA inspector indicates abnormal emissions, the frequency of emissions checks shall revert to daily for that emission point until such time as there are 30 consecutive operating days of normal visible emissions.

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IV. Reporting Requirements

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

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V. Testing Requirements

1. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

49.0 lbs/hr of particulate emissions

Applicable Compliance Method:

Compliance shall be demonstrated based upon the emission factors listed below. The following uncontrolled emission factors are taken from the USEPA document entitled "Source Assessment for Pressed and Blown Glass Manufacturing Plants", EPA-000/2-77-005:

- i. 1.0 lb of particulate emissions per ton of material throughput per belt conveyor - (1 belt conveyor present);
- ii. 1.0 lb of particulate emissions per ton of material throughput per elevator - (1 elevator present);
- iii. 1.0 lb of particulate emissions per ton of material throughput per stationary belt conveyor - (1 stationary belt conveyor present);
- iv. 1.0 lb of particulate emissions per ton of material throughput per mobile belt conveyor - (1 mobile belt conveyor present); and
- v. 0.2 lb of particulate emissions per ton of material throughput per storage silo or bin - (1 storage silo present).

The combined emission factor of 4.2 lbs of particulate emissions per ton of material throughput shall be multiplied by the maximum process weight rate, and then multiplied by an assumed control efficiency of 99% for the baghouses to determine the controlled particulate emission rate for this emissions unit.

Compliance may also be demonstrated based upon emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

b. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(1).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0637010000 Emissions Unit ID: F001 Issuance type: Title V Proposed 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>
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2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0637010000 Emissions Unit ID: P002 Issuance type: Title V Proposed 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>
natural gas fired, number 2 glass melting furnace	OAC rule 3745-17-11(B)(3)	none
	OAC rule 3745-17-07	See A.I.2.a below. none
	OAC rule 3745-18-06(E)(2)	See A.I.2.b below. Emissions of sulfur dioxide (SO2) shall not exceed 154.5 lbs/hr.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of emission (UMRE) for the particulate emissions from this emissions unit is less than 10 lbs/hr based on two separate emission tests conducted for this emissions unit in 1991. Pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, OAC rule 3745-17-11(A)(2)(b) specifically exempts sources located within Hocking County from the requirements of Table I.
- b. According to OAC rule 3745-17-07(A)(3)(h), the visible particulate emission limitations established in OAC rule 3745-17-07(A)(1) shall not apply to any air contaminant source which is not subject to the requirements of paragraphs (B)(3) and (B)(4) of rule 3745-17-08 of the Administrative Code, or rule 3745-17-09, 3745-17-10 or 3745-17-11 of the Administrative Code.

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. The SO2 emission limitation of 154.5 lbs/hr was established based on the equation specified in OAC rule 3745-18-06(E)(2) and a process weight rate of 11.54 tons/hr. Compliance with the SO2 emission limit is assumed due to the negligible percent sulfur, by weight, in the fuel.

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0637010000 Emissions Unit ID: P002 Issuance type: Title V Proposed 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. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0637010000 Emissions Unit ID: P004 Issuance type: Title V Proposed 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>
natural gas fired power groove	OAC rule 3745-17-11(B)(3)	none

OAC rule 3745-17-07

See A.I.2.a below.
none

See A.I.2.b below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of emission (UMRE) for particulate emissions from this emissions unit is less than 10 lbs/hr because the only source of particulate emissions from the power groove is from the combustion of natural gas. Pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, OAC rule 3745-17-11(A)(2)(b) specifically exempts sources located within Hocking County from the requirements of Table I.
- b. According to OAC rule 3745-17-07(A)(3)(h), the visible particulate emission limitations established in OAC rule 3745-17-07(A)(1) shall not apply to any air contaminant source which is not subject to the requirements of paragraphs (B)(3) and (B)(4) of rule 3745-17-08 of the Administrative Code, or rule 3745-17-09, 3745-17-10 or 3745-17-11 of the Administrative Code.

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0637010000 Emissions Unit ID: P004 Issuance type: Title V Proposed 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

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0637010000 Emissions Unit ID: P007 Issuance type: Title V Proposed 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>
material handling - batch preparation (south & north systems) controlled with S-1, S-2, B-2, B-5, B-6, and B-8 through B-10 baghouses	OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)(3)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule. The total particulate emissions from all of the baghouses and other stacks shall not exceed 10.7 lbs/hr.

2. **Additional Terms and Conditions**

- a. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rules 3745-17-07(B) and 3745-17-08(B) do not apply to the fugitive particulate emissions from the

batch preparation systems.

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II. **Operational Restrictions**

1. None

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

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

For emission points for which the daily checks show emissions that are representative of normal operation for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check of such emission point by the permittee or an Ohio EPA inspector indicates abnormal emissions, the frequency of emissions checks shall revert to daily for that emission point until such time as there are 30 consecutive operating days of normal visible emissions.

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IV. **Reporting Requirements**

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

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V. **Testing Requirements**

1. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

10.7 lbs/hr of particulate emissions

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in Test Methods 1 through 5 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. No testing is specifically required by this permit but, if appropriate may be requested pursuant to OAC rule 3745-15-04.
 - b. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in 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. No testing is specifically required by this permit but, if appropriate may be requested pursuant to OAC rule 3745-15-04.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0637010000 Emissions Unit ID: P007 Issuance type: Title V Proposed 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. Additional Terms and Conditions			
1.	None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0637010000 Emissions Unit ID: P008 Issuance type: Title V Proposed 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>
cullet crushing controlled with B-7 baghouse	OAC rule 3745-17-11(B)(3)	none
	OAC rule 3745-17-07(A)	See A.I.2.a below. none
		See A.I.2.b below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of emission (UMRE) for particulate emissions from this emissions unit is less than 10 lbs/hr based on AP-42 emission factors. Pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition OAC rule 3745-17-11(A)(2)(b) specifically exempts sources located within Hocking County from the requirements of Table I.
- b. According to OAC rule 3745-17-07(A)(3)(h), the visible particulate emission limitation established in OAC rule 3745-17-07(A)(1) shall not apply to any air contaminant source which is not subject to the requirements of paragraphs (B)(3) and (B)(4) of rule 3745-17-08 of the Administrative Code, or rule 3745-17-09, 3745-17-10 or 3745-17-11 of the Administrative Code.
- c. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) do not apply to the fugitive particulate emissions from the cullet crushing operation.

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0637010000 Emissions Unit ID: P008 Issuance type: Title V Proposed 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. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0637010000 Emissions Unit ID: P009 Issuance type: Title V Proposed 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>
natural gas-fired, number 1 lime glass melting furnace controlled with an electrostatic precipitator (ESP)	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11	See A.I.2.a below.
	OAC rule 3745-18-06(E)(2)	See A.I.2.b below.
	OAC rule 3745-31-05 (PTI 06-4801)	Emissions of nitrogen oxides shall not exceed 16.6 pounds per ton of glass produced (see A.I.2.c). This emissions unit also shall be limited to the following rolling, 12-month annual emissions: 7.4 tpy of particulate emissions 605.0 tpy of nitrogen oxides (NOx) 21.9 tpy of sulfur dioxide (SO2) 4.4 tpy of carbon monoxide (CO) 9.7 tpy of volatile organic compounds (VOC)
	40 CFR Part 60, Subpart CC	Particulate emissions shall not exceed 0.1 gram per kilogram of glass produced (0.2 lb/ton of glass produced).

2. Additional Terms and Conditions

- a. The particulate emission limitation required by OAC rule 3745-17-11 is less stringent than the particulate emission limitation established pursuant to the best available technology requirement specified in OAC rule 3745-31-05.
- b. The SO2 emission limitation required by OAC rule 3745-18-06 is less stringent than the SO2 emission limitation established pursuant to the best available technology requirement specified in OAC rule 3745-31-05.
- c. The NOx emission limitation of 16.6 pounds per ton of glass produced was established pursuant to OAC rule 3745-31-05 to comply with Best Available Control Technology (BACT) requirements for Prevention of Significant Deterioration (PSD) and, therefore, is federally enforceable.

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II. Operational Restrictions

1. The maximum annual production rate for this furnace shall not exceed 72,900 tons of glass per year, based on a rolling, 365-day summation of the daily production rates.

NOTE: This annual production rate limitation was calculated as follows:

$$(605 \text{ tons of NOx/year}) \times (\text{ton of glass}/16.6 \text{ lbs of NOx}) \times (2000 \text{ lbs/ton}) = 72,900 \text{ tons of glass/year}$$

2. The permittee shall operate the ESP during any operation of this emissions unit.
3. The secondary voltage (V) and current (milliamps) recorded at each transformer set within the ESP shall be maintained within the range of values recorded during the emission test on November 18, 1996, which showed that the emissions unit was in compliance with the particulate emission limitation. These values are:
 - a. 13 - 25 volts for the secondary voltage; and
 - b. 21 - 60 milliamps for the current.

During periods when only 2 fields are utilized, the secondary voltage shall be maintained within the range of 15 to 20 kilovolts.

These ranges for the ESP parameters are effective for the duration of this permit unless additional performance testing is conducted which shows that the emissions unit is in compliance with the particulate emission limitation. At that time the test results will be reviewed by the Ohio EPA and the ESP parameter ranges may be adjusted accordingly, provided that written approval of the new ESP parameters is obtained from the Ohio EPA, Southeast District Office.

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

1. Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 06-4801, issued on July 11, 1996: (sections A.III.2 through A.III.4). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.
2. In order to demonstrate compliance with the rolling, 365-day production limit, the permittee shall maintain daily records of the following information:
 - a. the production rate, in tons, for each day; and
 - b. the rolling, 365-day summation of the daily production rates.

In the event that, for any reason, the permittee cannot ascertain the daily production rate, the permittee shall use the highest daily production rate from the prior 30 days in order to determine compliance with the rolling, 365 day production limit.

NOTE: In determining production rates, the permittee may use calculations based upon raw material feed and volatilization rates in accordance with good engineering practices.

3. The permittee shall maintain monthly records of the rolling, 12-month emissions for particulates, NO_x, SO₂, CO, and VOC and the total hours of operation for this emissions unit.
4. The permittee shall monitor and record, once each day, the secondary voltage, in kilovolts, and the current, in milliamps, for each transformer set in the ESP.

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IV. **Reporting Requirements**

1. Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 06-4801, issued on July 11, 1996: (sections A.IV.2 through A.IV.4). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the rolling, 365-day production rate limitation was exceeded.
3. The permittee shall submit quarterly deviation (excursion) reports that identify any deviations from the secondary voltage and current ranges specified in section A.II.3.
4. The permittee shall submit quarterly deviation (excursion) reports that identify each month during which any rolling, 12-month emission limitation specified in section A.I.1 of this permit was exceeded.

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V. **Testing Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install 06-4801, issued on July 11, 1996: (sections A.V.2 through A.V.9). The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.
2. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the procedures specified in 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. No testing is specifically required by this permit but, if appropriate may be requested pursuant to OAC rule 3745-15-04.
 - b. Emission Limitation:

0.1 gram of particulate emissions per kilogram of glass produced (0.2 lb/ton of glass produced)

Applicable Compliance Method:

Compliance with the particulate emission limitation of 0.2 lb of particulates/ton of glass produced shall be determined by dividing the particulate emission rate obtained during the most recent compliance test, in lbs/hr, by the actual glass produced during the test, in tons/hr.

c. Emission Limitation:

16.6 lbs of NOx per ton of glass produced

Applicable Compliance Method:

Compliance with the NOx emission limitation of 16.6 lbs of NOx/ton of glass produced shall be determined by dividing the NOx emission rate obtained during the most recent compliance test, in lbs/hr, by the actual glass produced during the test, in tons/hr.

d. Emission Limitation:

7.4 tpy of particulate emissions as a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limitation for particulate emissions shall be determined as follows:

a. calculate the emission factor for particulate emissions, in lbs of particulates/ton of glass produced, by dividing the particulate emission rate obtained during the most recent compliance test, in lbs/hr, by the actual tons of glass produced during the test, in tons/hr; and

b. multiply the particulate emission factor by the rolling, 12-month production rate of glass, in tons of glass/year (recorded in section A.III.2.b), and then divide by 2000 lbs/ton.

e. Emission Limitation:

605.0 tpy of NOx as a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limitation for NOx shall be determined as follows:

a. calculate the emission factor for NOx, in lbs of NOx/ton of glass produced, by dividing the NOx emission rate obtained during the most recent compliance test, in lbs/hr, by the actual tons of glass produced during the test, in tons/hr; and

b. multiply the NOx emission factor by the rolling, 12-month production rate of glass, in tons of glass/year (recorded in section A.III.2.b), and then divide by 2000 lbs/ton.

f. Emission Limitation:

21.9 tpy of SO2 as a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limitation for SO2 shall be determined as follows:

$(3.0 \text{ lbs of SO}_2/\text{hr}) \times (\text{actual hours of operation per 12-month period}) \times (0.0005 \text{ ton/lb}) = \text{tons of SO}_2/\text{yr}$

The emission factor of 3.0 lbs of SO2/hr was determined through emission testing of the emissions unit on November 18, 1996.

g. Emission Limitation:

4.4 tpy of CO as a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limitation for CO shall be determined as follows:

$(0.54 \text{ lb of CO/hr}) \times (\text{actual hours of operation per 12-month period}) \times (0.0005 \text{ ton/lb}) = \text{tons of CO/yr}$

The emission factor of 0.54 lb of CO/hr was determined through emission testing of the emissions unit on November 18, 1996.

h. Emission Limitation:

9.7 tpy of VOC as a rolling, 12-month summation

Applicable Compliance Method:

Compliance with the annual emission limitation for VOC shall be determined as follows:

$(0.25 \text{ lb of VOC/ton of glass produced}) \times (\text{the rolling, 12-month production rate of glass, in tons of glass})$

produced/year) X (0.0005 ton/lb) = tons of VOC/yr

The 0.25 lb of VOC/ton of glass produced emission factor was established based on emission testing of the emissions unit on November 18, 1996.

3. 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 6 months of expiration of this permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and SO₂.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its normal sustainable production level as specified in 40 CFR, Part 60 Subpart CC, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
4. 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 the permit, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NO_x.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NO_x, Method 7E of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its normal sustainable production level as specified in 40 CFR, Part 60 Subpart CC, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
5. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

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

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0637010000 Emissions Unit ID: P009 Issuance type: Title V Proposed 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. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None