

Facility ID: 0448010066 Issuance type: Title V Preliminary 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:

Z002 - groundwater treatment plant;
B003 - boiler #4;
F001 - batch unloading facilities;
F002 - batch house;
F018 - roadways and parking lots;
G001 - gasoline dispensing facility;
K001 - maintenance shop paint booth;
N001 - calcinator incinerator;
P023 - mycalex machining room;
R001 - spray booth position #1;
Z003 - cullet crusher #1;
Z004 - cullet crusher #2;
Z005 - forehearth stirrer preheater;
Z006 - mold shop walnut blaster; and
Z007 - mold shop grit blaster.

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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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010066 Emissions Unit ID: B004 Issuance type: Title V Preliminary 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>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulates per million Btu of actual heat input
	OAC rule 3745-18-06(D)	See A.I.2.b below.
	OAC rule 3745-21-07(B)	0.01 pound of volatile organic compounds per million Btu of actual heat input
	OAC rule 3745-21-08(B)	0.09 pound of carbon monoxide per million Btu of actual heat input
	OAC rule 3745-23-06(B)	0.145 pound of nitrogen oxides per million Btu of actual heat input
	OAC rule 3745-31-05(A)(3) (established by PTI 04-367, as issued on November 26, 1986)	0.52 pound of sulfur dioxide per million Btu of actual heat input See A.I.2.c and A.I.2.d below.
	OAC rule 3745-31-05(D) (synthetic minor limitation established by PTI 04-367, as issued on November 26, 1986)	See A.I.2.e below.

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c. The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide, 18.4 tons of nitrogen oxides, 1.23 tons of particulates, or 0.74 ton of volatile organic compounds.
- d. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-10(B)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule

3745-23-06(B).

- e. The combined emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide as a rolling, 12-month summation.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.52 pound sulfur dioxide/mmBtu actual heat input. Compliance with the above-mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.
3. The combined #2 fuel oil usage in emissions units B004, B005, and B006 shall not exceed 1,040,000 gallons in any calendar year.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall calculate and record the sulfur dioxide emission rate, in pounds per million Btu, from the analytical results provided by the permittee or oil supplier for each shipment of oil received in accordance with the methods and procedures of OAC rule 3745-18-04(F)(2).
5. The permittee shall measure and record on a monthly basis, the total quantity of oil combusted in emissions units B004, B005, and B006 as a monthly total and as a rolling, 12-month summation.
6. The permittee shall calculate and record, on a monthly basis, the combined sulfur dioxide emissions (tons/year) from B004, B005, and B006 as a rolling, 12-month summation.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit;
 - b. an identification of each month when the sulfur dioxide emission rate (lb/mmBtu) for any oil received during the calendar month exceeded 0.52 pound of sulfur dioxide per million Btu;
 - c. an identification of each month in which the combined #2 fuel oil usage of emissions units B004, B005, and B006 exceeded 1,040,000 gallons as a rolling, 12-month summation, and the actual combined #2 fuel oil usage for each such month; and
 - d. an identification of each month during which the combined sulfur dioxide emission rate, as a rolling, 12-month summation, for emissions units B004, B005, and B006 exceeded 38.04 tons of sulfur dioxide, and the actual combined sulfur dioxide emission rate for each such month.
2. These deviation reports shall be submitted within 30 days of the discovery of an exceedence. The permittee shall also submit an annual report summarizing the information collected to comply with the monitoring and record keeping requirements of section III of this permit. This annual report shall be submitted by April 15 of each year and shall cover the previous calendar year.

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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:

20% opacity as a 6-minute average

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil as determined through the record keeping requirements of section A.III.1 shall be considered an adequate demonstration of compliance with this emission limitation, or compliance may be demonstrated using the methods and procedures of OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil as determined through the record keeping requirements of section A.III.1 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For natural gas: divide the AP-42 (Table 1.4-2, 7/98 Edition) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) particulate emission factor of 2 pounds per thousand gallons by an average #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in OAC rule 3745-17-03(B)(9).

c. Emission Limitation:

0.006 pound of volatile organic compounds per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (Table 1.4-2, 7/98 Edition) volatile organic compound emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic feet natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-3, 9/98 Edition) volatile organic compound emission factor for #2 fuel oil combustion of 0.2 pound of volatile organic compound per thousand gallons of #2 fuel oil usage by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 25 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.

d. Emission Limitation:

0.09 pound of carbon monoxide per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 10 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.

e. Emission Limitation:

0.145 pound of nitrogen oxides per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (Table 1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot of natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor of 20 pounds of nitrogen oxides emissions per thousand gallons of #2 fuel oil by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 7 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.

f. Emission Limitation:

0.52 pound of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based on the record keeping requirements of section A.III.

OR

If required, use the methods and procedures provided in OAC rule 3745-18-04(E) and 04(F).

g. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section B.II.1 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

h. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 18.4 tons of nitrogen oxides.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section A.II.3 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

i. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 1.23 tons of particulate.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section A.II.3 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (1.3-1, 9/98 Edition) particulate emission factor for #2 fuel oil combustion of 2 pounds per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-2, 7/98 Edition) emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

j. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 0.74 ton of volatile organic compounds.

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (7/98 Edition) volatile organic compounds emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by the calculated maximum annual natural gas usage of 270 million standard cubic feet and then divide by 2000 lbs/ton.

k. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements of section A.III.6. This emission limitation was established in PTI 04-367 to reflect the combined potential to emit for emission units B003, B004 and B005 burning natural gas and a maximum 1,040,000 gallons of #2 fuel oil (see section III.4.) with a value of 0.52 pounds of sulfur dioxide per mmBtu and 140,000 Btu per gallon of #2 fuel oil (AP-42, Table 1.3-1, 9/98 Edition).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: B004 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: B005 Issuance type: Title V Preliminary 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>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulates per million Btu of actual heat input
	OAC rule 3745-18-06(D)	See A.I.2.b below.
	OAC rule 3745-21-07(B)	0.01 pound of volatile organic compounds per million Btu of actual heat input
	OAC rule 3745-21-08(B)	0.09 pound of carbon monoxide per million Btu of actual heat input
	OAC rule 3745-23-06(B)	0.145 pound of nitrogen oxides per million Btu of actual heat input
	OAC rule 3745-31-05(A)(3) (established by PTI 04-367, as	0.52 pound of sulfur dioxide per million Btu of actual heat input

issued on November 26, 1986) See A.I.2.c and A.I.2.d below.

See A.I.2.e below.

OAC rule 3745-31-05(D)
(synthetic minor limitation
established by PTI 04-367, as issued
on November 26, 1986)

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c. The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide, 18.4 tons of nitrogen oxides, 1.23 tons of particulates, or 0.74 ton of volatile organic compounds.
- d. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-10(B)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
- e. The combined emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide as a rolling, 12-month summation.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.52 pound sulfur dioxide/mmBtu actual heat input. Compliance with the above-mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.
3. The combined #2 fuel oil usage in emissions units B004, B005, and B006 shall not exceed 1,040,000 gallons in any calendar year.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall calculate and record the sulfur dioxide emission rate, in pounds per million Btu, from the analytical results provided by the permittee or oil supplier for each shipment of oil received in accordance with the methods and procedures of OAC rule 3745-18-04(F)(2).
5. The permittee shall measure and record on a monthly basis, the total quantity of oil combusted in emissions units B004, B005, and B006 as a monthly total and as a rolling, 12-month summation.
6. The permittee shall calculate and record, on a monthly basis, the combined sulfur dioxide emissions (tons/year) from B004, B005, and B006 as a rolling, 12-month summation.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit;
 - b. an identification of each month when the sulfur dioxide emission rate (lb/mmBtu) for any oil received during the calendar month exceeded 0.52 pound of sulfur dioxide per million Btu;

- c. an identification of each month in which the combined #2 fuel oil usage of emissions units B004, B005, and B006 exceeded 1,040,000 gallons as a rolling, 12-month summation, and the actual combined #2 fuel oil usage for each such month; and
 - d. an identification of each month during which the combined sulfur dioxide emission rate, as a rolling, 12-month summation, for emissions units B004, B005, and B006 exceeded 38.04 tons of sulfur dioxide, and the actual combined sulfur dioxide emission rate for each such month.
2. These deviation reports shall be submitted within 30 days of the discovery of an exceedence. The permittee shall also submit an annual report summarizing the information collected to comply with the monitoring and record keeping requirements of section III of this permit. This annual report shall be submitted by April 15 of each year and shall cover the previous calendar year.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.I.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:

The exclusive combustion of natural gas and/or #2 fuel oil as determined through the record keeping requirements of section A.III.1 shall be considered an adequate demonstration of compliance with this emission limitation, or compliance may be demonstrated using the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil as determined through the record keeping requirements of section A.III.1 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For natural gas: divide the AP-42 (Table 1.4-2, 7/98 Edition) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) particulate emission factor of 2 pounds per thousand gallons by an average #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in OAC rule 3745-17-03(B)(9).
 - c. Emission Limitation:

0.006 pound of volatile organic compounds per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (Table 1.4-2, 7/98 Edition) volatile organic compound emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic feet natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-3, 9/98 Edition) volatile organic compound emission factor for #2 fuel oil combustion of 0.2 pound of volatile organic compound per thousand gallons of #2 fuel oil usage by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 25 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.
 - d. Emission Limitation:

0.09 pound of carbon monoxide per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 10 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.

e. Emission Limitation:

0.145 pound of nitrogen oxides per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (Table 1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot of natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor of 20 pounds of nitrogen oxides emissions per thousand gallons of #2 fuel oil by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 7 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.

f. Emission Limitation:

0.52 pound of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based on the record keeping requirements of section A.III.

OR

If required, use the methods and procedures provided in OAC rule 3745-18-04(E) and 04(F).

g. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section B.II.1 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

h. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 18.4 tons of nitrogen oxides.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section A.II.3 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

i. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 1.23 tons of particulate.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section A.II.3 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (1.3-1, 9/98 Edition) particulate emission factor for #2 fuel oil combustion of 2 pounds per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-2, 7/98 Edition) emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

j. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 0.74 ton of volatile organic compounds.

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (7/98 Edition) volatile organic compounds emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by the calculated maximum annual natural gas usage of 270 million standard cubic feet and then divide by 2000 lbs/ton.

k. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements of section A.III.6. This emission limitation was established in PTI 04-367 to reflect the combined potential to emit for emission units B003, B004 and B005 burning natural gas and a maximum 1,040,000 gallons of #2 fuel oil (see section III.4.) with a value of 0.52 pounds of sulfur dioxide per mmBtu and 140,000 Btu per gallon of #2 fuel oil (AP-42, Table 1.3-1, 9/98 Edition).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010066 Emissions Unit ID: B005 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Emissions Unit ID: B006 Issuance type: Title V Preliminary 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>
10.3 mmBtu/hr boiler fired with natural gas or #2 fuel oil with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulates per million Btu of actual heat input
	OAC rule 3745-18-06(D)	See A.I.2.b below.
	OAC rule 3745-21-07(B)	0.01 pound of volatile organic compounds per million Btu of actual heat input
	OAC rule 3745-21-08(B)	0.09 pound of carbon monoxide per million Btu of actual heat input
	OAC rule 3745-23-06(B)	0.145 pound of nitrogen oxides per million Btu of actual heat input
	OAC rule 3745-31-05(A)(3) (established by PTI 04-367, as issued on November 26, 1986)	0.52 pound of sulfur dioxide per million Btu of actual heat input See A.I.2.c and A.I.2.d below.
	OAC rule 3745-31-05(D) (synthetic minor limitation established by PTI 04-367, as issued on November 26, 1986)	See A.I.2.e below.

2. Additional Terms and Conditions

- a. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c. The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide, 18.4 tons of nitrogen oxides, 1.23 tons of particulates, or 0.74 ton of volatile organic compounds.
- d. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-10(B)(1), OAC rule 3745-21-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).
- e. The combined emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide as a rolling, 12-month summation.

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II. Operational Restrictions

- 1. The permittee shall burn only natural gas and/or #2 fuel oil in this emissions unit.
- 2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.52 pound sulfur dioxide/mmBtu actual heat input. Compliance with the above-mentioned specification shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.
- 3. The combined #2 fuel oil usage in emissions units B004, B005, and B006 shall not exceed 1,040,000 gallons in any calendar year.

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III. Monitoring and/or Record Keeping Requirements

- 1. For each day during which the permittee burns a fuel other than natural gas and/or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
- 3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the permittee's or oil supplier's analyses for sulfur content and heat content.

4. The permittee shall calculate and record the sulfur dioxide emission rate, in pounds per million Btu, from the analytical results provided by the permittee or oil supplier for each shipment of oil received in accordance with the methods and procedures of OAC rule 3745-18-04(F)(2).
5. The permittee shall measure and record on a monthly basis, the total quantity of oil combusted in emissions units B004, B005, and B006 as a monthly total and as a rolling, 12-month summation.
6. The permittee shall calculate and record, on a monthly basis, the combined sulfur dioxide emissions (tons/year) from B004, B005, and B006 as a rolling, 12-month summation.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or #2 fuel oil was burned in this emissions unit;
 - b. an identification of each month when the sulfur dioxide emission rate (lb/mmBtu) for any oil received during the calendar month exceeded 0.52 pound of sulfur dioxide per million Btu;
 - c. an identification of each month in which the combined #2 fuel oil usage of emissions units B004, B005, and B006 exceeded 1,040,000 gallons as a rolling, 12-month summation, and the actual combined #2 fuel oil usage for each such month; and
 - d. an identification of each month during which the combined sulfur dioxide emission rate, as a rolling, 12-month summation, for emissions units B004, B005, and B006 exceeded 38.04 tons of sulfur dioxide, and the actual combined sulfur dioxide emission rate for each such month.
2. These deviation reports shall be submitted within 30 days of the discovery of an exceedence. The permittee shall also submit an annual report summarizing the information collected to comply with the monitoring and record keeping requirements of section III of this permit. This annual report shall be submitted by April 15 of each year and shall cover the previous calendar year.

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V. **Testing Requirements**

1. Compliance with the emission limitations in section A.I.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:

The exclusive combustion of natural gas and/or #2 fuel oil as determined through the record keeping requirements of section A.III.1 shall be considered an adequate demonstration of compliance with this emission limitation, or compliance may be demonstrated using the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil as determined through the record keeping requirements of section A.III.1 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For natural gas: divide the AP-42 (Table 1.4-2, 7/98 Edition) particulate emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) particulate emission factor of 2 pounds per thousand gallons by an average #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in OAC rule 3745-17-03(B)(9).
 - c. Emission Limitation:

0.006 pound of volatile organic compounds per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (Table 1.4-2, 7/98 Edition) volatile organic compound emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic feet natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-3, 9/98 Edition) volatile organic compound emission factor for #2 fuel oil combustion of 0.2 pound of volatile organic compound per thousand gallons of #2 fuel oil usage by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 25 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.

d. Emission Limitation:

0.09 pound of carbon monoxide per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 10 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.

e. Emission Limitation:

0.145 pound of nitrogen oxides per million Btu of actual heat input

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

For gas: divide the AP-42 (Table 1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas by an average natural gas heating value of 1,020 Btu per standard cubic foot of natural gas.

For #2 fuel oil: divide the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor of 20 pounds of nitrogen oxides emissions per thousand gallons of #2 fuel oil by the #2 fuel oil heating value of 140 million Btu per thousand gallons.

OR

If required, use the methods and procedures provided in Method 7 of 40 CFR Part 60, Appendix A, or other method approved by the Ohio EPA.

f. Emission Limitation:

0.52 pound of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based on the record keeping requirements of section A.III.

OR

If required, use the methods and procedures provided in OAC rule 3745-18-04(E) and 04(F).

g. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of carbon monoxide.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section B.II.1 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (Table 1.3-1, 9/98 Edition) carbon monoxide emission factor for #2 fuel oil combustion of 5 pounds of carbon monoxide per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (7/98 Edition) carbon monoxide emission factor of 84 pounds of carbon monoxide emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

h. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 18.4 tons of nitrogen oxides.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section A.II.3 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (Table 1.3-1, 9/98 Edition) nitrogen oxides emission factor for #2 fuel oil combustion of 20 pounds of nitrogen oxides per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-1, 7/98 Edition) nitrogen oxides emission factor of 100 pounds of nitrogen oxides emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

i. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 1.23 tons of particulate.

Applicable Compliance Method:

Compliance with the annual #2 fuel oil throughput limitation in section A.II.3 shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (1.3-1, 9/98 Edition) particulate emission factor for #2 fuel oil combustion of 2 pounds per thousand gallons by the maximum allowable oil usage limitation of 1,040,000 gallons in a calendar year and add the product of the AP-42 (1.4-2, 7/98 Edition) emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas multiplied by the calculated maximum annual natural gas usage of 120 million standard cubic feet and then divide by 2000 lbs/ton.

j. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 0.74 ton of volatile organic compounds.

Applicable Compliance Method:

The exclusive combustion of natural gas and/or #2 fuel oil shall be considered an adequate demonstration of compliance with this emission limitation.

OR

Multiply the AP-42 (7/98 Edition) volatile organic compounds emission factor of 5.5 pounds of volatile organic compound emissions per million cubic feet of natural gas by the calculated maximum annual natural gas usage of 270 million standard cubic feet and then divide by 2000 lbs/ton.

k. Emission Limitation:

The combined annual emissions from emissions units B004, B005, and B006 shall not exceed 38.04 tons of sulfur dioxide, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements of section A.III.6. This emission limitation was established in PTI 04-367 to reflect the combined potential to emit for emission units B003, B004 and B005 burning natural gas and a maximum 1,040,000 gallons of #2 fuel oil (see section III.4.) with a value of 0.52 pounds of sulfur dioxide per mmBtu and 140,000 Btu per gallon of #2 fuel oil (AP-42, Table 1.3-1, 9/98 Edition).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010066 Emissions Unit ID: B006 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Emissions Unit ID: F003 Issuance type: Title V Preliminary 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>
1.93 tons per hour glass forming line A-1 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	47 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:
20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:
47 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
 - c. Emission Limitation:
8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010066 Emissions Unit ID: F003 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010066 Emissions Unit ID: F004 Issuance type: Title V Preliminary 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>
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1.79 tons per hour glass forming line A-1 and OAC rule 3745-17-07(B)(1) annealing lehr with no controls	OAC rule 3745-17-08(B), (B)(3) OAC rule 3745-18-06(E)(2)	See A.I.2.a below. See A.I.2.b below. 44 lbs/hr of sulfur dioxide
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OAC rule 3745-21-07(G)(2)

8 lbs/hr and 40 lbs/day of organic materials

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)

b. Emission Limitation:

44 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).

c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: F004 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: F005 Issuance type: Title V Preliminary 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>
1.93 tons per hour glass forming line B-2 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	47 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials

2. **Additional Terms and Conditions**

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. **Operational Restrictions**

- 1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material

employed;

- c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
- d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
- e. the total number of hours this emissions unit was in operation using liquid organic materials; and
- f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:

47 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
 - c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010066 Emissions Unit ID: F005 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: F007 Issuance type: Title V Preliminary 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>
2.25 tons per hour glass forming line D-1 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	52 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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V. **Testing Requirements**

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

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:

52 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
 - c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: F007 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: F008 Issuance type: Title V Preliminary 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>
1.58 tons per hour glass forming line D-2 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	41 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:
20% opacity as a 3-minute average
Applicable Compliance Method:
Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:
41 lbs/hr of sulfur dioxide
Applicable Compliance Method:
The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).

c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: F008 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: F009 Issuance type: Title V Preliminary 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>
1.83 tons per hour glass forming line E-1 and annealinglehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	45 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials

2. **Additional Terms and Conditions**

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:

45 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
 - c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: F009 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: F010 Issuance type: Title V Preliminary 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>
1.58 tons per hour glass forming line F-1 and annealing Lehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	41 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials
2. Additional Terms and Conditions		
a.	Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.	
b.	It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.	

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II. Operational Restrictions

- The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - the total number of hours this emissions unit was in operation using liquid organic materials; and
 - the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports which include the following information:
 - an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
- The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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V. Testing Requirements

- 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 3-minute average
 Applicable Compliance Method:
 Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)

- b. Emission Limitation:
 41 lbs/hr of sulfur dioxide
 Applicable Compliance Method:
 The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).

- c. Emission Limitation:
 8 lbs/hr and 40 lbs/day of organic materials
 Applicable Compliance Method:
 Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010066 Emissions Unit ID: F010 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Emissions Unit ID: F011 Issuance type: Title V Preliminary 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>
1.93 tons per hour glass forming line F-2 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	47 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials

2. **Additional Terms and Conditions**

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. **Operational Restrictions**

- 1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:

47 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
 - c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010066 Issuance type: Title V Preliminary Proposed Permit

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Facility ID: 0448010066 Emissions Unit ID: F011 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010066 Emissions Unit ID: F012 Issuance type: Title V Preliminary 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>
1.08 tons per hour glass forming line G-2 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	32 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:

32 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
 - c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010066 Emissions Unit ID: F012 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: F013 Issuance type: Title V Preliminary 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>
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1.13 tons per hour glass forming line G-3 and annealing lehr with no controls	OAC rule 3745-17-07(B)(1)	See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	33 lbs/hr of sulfur dioxide

OAC rule 3745-21-07(G)(2)

8 lbs/hr and 40 lbs/day of organic materials

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:
20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)

- b. Emission Limitation:
 33 lbs/hr of sulfur dioxide
 Applicable Compliance Method:
 The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
- c. Emission Limitation:
 8 lbs/hr and 40 lbs/day of organic materials
 Applicable Compliance Method:
 Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010066 Emissions Unit ID: F013 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: F014 Issuance type: Title V Preliminary 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>
1.58 tons per hour glass forming line G-4 and OAC rule 3745-17-07(B)(1) annealing lehr with no controls		See A.I.2.a below.
	OAC rule 3745-17-08(B), (B)(3)	See A.I.2.b below.
	OAC rule 3745-18-06(E)(2)	41 lbs/hr of sulfur dioxide
	OAC rule 3745-21-07(G)(2)	8 lbs/hr and 40 lbs/day of organic materials

2. **Additional Terms and Conditions**

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. **Operational Restrictions**

- 1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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

- 1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material

employed;

- c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
- d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
- e. the total number of hours this emissions unit was in operation using liquid organic materials; and
- f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:

41 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
 - c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010066 Emissions Unit ID: F014 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: F015 Issuance type: Title V Preliminary 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>
1.93 tons per hour glass forming line G-5 and OAC rule 3745-17-07(B)(1) annealing lehr with no controls	OAC rule 3745-17-08(B), (B)(3) OAC rule 3745-18-06(E)(2) OAC rule 3745-21-07(G)(2)	See A.I.2.a below. See A.I.2.b below. 47 lbs/hr of sulfur dioxide 8 lbs/hr and 40 lbs/day of organic materials

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 3-minute average, except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. It has been determined that no control measures are necessary to comply with the requirements of OAC rule 3745-17-08.

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each day that a photochemically reactive material (i.e., mold release agent and/or cleanup material) is employed in this emissions unit, the permittee shall collect and record the following information:
 - a. the company identification of each mold release agent and photochemically reactive cleanup material employed;
 - b. the number of gallons of each mold release agent and photochemically reactive cleanup material employed;
 - c. the organic compound content of each mold release agent and photochemically reactive cleanup material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all mold release agents and photochemically reactive cleanup materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The mold release agent information must be for the material as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "liquid organic material" and "photochemically reactive material" are based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day when a fuel other than natural gas and/or propane was burned in this emissions unit;
 - b. an identification of each day during which the average hourly organic compound emissions exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day; and
 - c. an identification of each day during which the organic compound emissions exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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V. **Testing Requirements**

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

20% opacity as a 3-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(3)
 - b. Emission Limitation:

47 lbs/hr of sulfur dioxide

Applicable Compliance Method:

The exclusive combustion of natural gas and/or propane shall be considered an adequate demonstration of compliance with this emissions limitation or, if required, use the procedures and methods of OAC rule 3745-18-04(E).
 - c. Emission Limitation:

8 lbs/hr and 40 lbs/day of organic materials

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of the liquid organic materials.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: F015 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P002 Issuance type: Title V Preliminary 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>
1.93 tons per hour glass melting furnace "A" with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(1)	6.4 lbs/hr of particulates
	OAC rule 3745-18-06(E)(2)	47 lbs/hr of sulfur dioxide

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, from the stack, except as provided by rule.
- b. This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO2 emissions from fuel combustion are considered to be a small fraction of the SO2 emissions. Most SO2 emissions are generated from impurities in the feed stock material. Because the potential to emit for SO2, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for

monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate 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.I.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:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1 or, if required, through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

6.4 lbs/hr of particulates

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation:

47 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-18-04(E)(1).

2. If required, 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 to demonstrate compliance with the allowable mass emission rate(s) for particulates and/or sulfur dioxide.
 - b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A for particulate and sulfur dioxide emissions, respectively. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
 - c. The permittee shall burn only #2 fuel oil in this emissions unit during the test.

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 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: 0448010066 Emissions Unit ID: P002 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P003 Issuance type: Title V Preliminary 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>
3.13 tons per hour glass melting furnace "B" with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(1)	12 lbs/hr of particulates
	OAC rule 3745-18-06(E)(2)	86 lbs/hr of sulfur dioxide

2. **Additional Terms and Conditions**

- a. Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, from the stack, except as provided by rule.
- b. This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO2 emissions from fuel

combustion are considered to be a small fraction of the SO₂ emissions. Most SO₂ emissions are generated from impurities in the feed stock material. Because the potential to emit for SO₂, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate 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.I.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:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1 or, if required, through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

12 lbs/hr of particulates

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).

- c. Emission Limitation:
- 86 lbs/hr of sulfur dioxide
- Applicable Compliance Method:
- Multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.
- OR
- If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-18-04(E)(1).
2. If required, 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 to demonstrate compliance with the allowable mass emission rate(s) for particulates and/or sulfur dioxide.
- b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A for particulate and sulfur dioxide emissions, respectively. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
- c. The permittee shall burn only #2 fuel oil in this emissions unit during the test.
- 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 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: 0448010066 Emissions Unit ID: P003 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P005 Issuance type: Title V Preliminary 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>
	2.92 tons per hour glass melting furnace "D" with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
		OAC rule 3745-17-11(B)(1)	8.4 lbs/hr of particulates
		OAC rule 3745-18-06(E)(2)	62 lbs/hr of sulfur dioxide

2. **Additional Terms and Conditions**

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

- b. This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO₂ emissions from fuel combustion are considered to be a small fraction of the SO₂ emissions. Most SO₂ emissions are generated from impurities in the feed stock material. Because the potential to emit for SO₂, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate 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.I.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:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1 or, if required, through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

8.4 lbs/hr of particulates

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.
- OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).

c. Emission Limitation:

62 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-18-04(E)(1).

2. If required, 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 to demonstrate compliance with the allowable mass emission rate(s) for particulates and/or sulfur dioxide.

b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A for particulate and sulfur dioxide emissions, respectively. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

c. The permittee shall burn only #2 fuel oil in this emissions unit during the test.

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 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: 0448010066 Emissions Unit ID: P005 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P006 Issuance type: Title V Preliminary 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>
2.92 tons per hour glass melting furnace "E" with no controls		OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
		OAC rule 3745-17-11(B)(1)	8.4 lbs/hr of particulates
		OAC rule 3745-18-06(E)(2)	62 lbs/hr of sulfur dioxide
2. Additional Terms and Conditions			

- a. Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, from the stack, except as provided by rule.
- b. This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO₂ emissions from fuel combustion are considered to be a small fraction of the SO₂ emissions. Most SO₂ emissions are generated from impurities in the feed stock material. Because the potential to emit for SO₂, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate 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.I.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:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1 or, if required, through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

8.4 lbs/hr of particulates

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).

c. Emission Limitation:

62 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-18-04(E)(1).

2. If required, 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 to demonstrate compliance with the allowable mass emission rate(s) for particulates and/or sulfur dioxide.
- b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A for particulate and sulfur dioxide emissions, respectively. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
- c. The permittee shall burn only #2 fuel oil in this emissions unit during the test.

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 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: 0448010066 Emissions Unit ID: P006 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P007 Issuance type: Title V Preliminary 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>
5.42 tons per hour glass melting furnace "G" with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(1)	13 lbs/hr of particulates

OAC rule 3745-18-06(E)(2)

93 lbs/hr of sulfur dioxide

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, from the stack, except as provided by rule.
- b. This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO₂ emissions from fuel combustion are considered to be a small fraction of the SO₂ emissions. Most SO₂ emissions are generated from impurities in the feed stock material. Because the potential to emit for SO₂, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

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1. None

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

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1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate 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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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:
20% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1 or, if required, through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:
13 lbs/hr of particulates

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).

c. Emission Limitation:

93 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-18-04(E)(1).

2. Within 3 months after issuance of this permit, 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 to demonstrate compliance with the allowable mass emission rate(s) for particulates and sulfur dioxide.

b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A for particulate and sulfur dioxide emissions, respectively. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

c. The permittee shall burn only #2 fuel oil in this emissions unit during the test.

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 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: 0448010066 Emissions Unit ID: P007 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P010 Issuance type: Title V Preliminary 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>
3,250 lbs/hr corrugated carton cutting with a	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.

cyclone

OAC rule 1745-17-11(B)(1)

5.7 lbs/hr of particulates

2. **Additional Terms and Conditions**

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

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II. **Operational Restrictions**

1. None

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

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

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IV. **Reporting Requirements**

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

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V. **Testing Requirements**

1. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:
- Emission Limitation:
20% opacity as a 6-minute average
Applicable Compliance Method:
Compliance shall be demonstrated through the monitoring and record keeping requirements of section A.III.1. If required, the permittee shall demonstrate compliance in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).
 - Emission Limitation:
5.7 lbs/hr of particulates
Applicable Compliance Method:
If required, the permittee shall demonstrate compliance in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: P010 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010066 Emissions Unit ID: P011 Issuance type: Title V Preliminary 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>
decorating and firing of glassware, <10 MMBtu direct gas fired with no control	OAC rule 3745-18-06(B)	exemption from SO2 emission limitations
	OAC rule 3745-21-07(G)(1)	3 lbs/hr and 15 lbs/day of organic compounds from liquid organic materials

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information for each day that a liquid organic material is used in this emissions unit:
 - a. the company identification of each liquid organic material employed;
 - b. the number of gallons of each liquid organic material employed;
 - c. the organic compound content of each liquid organic material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all liquid organic materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The liquid organic material information must be for the liquid organic material as employed, including any thinning solvents added at the emissions unit. Also, the definition of "liquid organic material" is based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from all liquid organic materials exceeded 3 lbs/hr, and the average hourly organic compound emissions for each such day; and
 - b. an identification of each day during which the organic compound emissions from all liquid organic materials exceeded 15 lbs/day, and the organic compound emissions for each such day.
- 2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

Emission Limitations:

3 lbs/hr and 15 lbs/day of organic compounds from liquid organic material

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010066 Emissions Unit ID: P011 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P012 Issuance type: Title V Preliminary 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>
decorating and firing of glassware, <10 MMBtu direct gas fired with no control	OAC rule 3745-18-06(B)	exemption from SO2 emission limitations
	OAC rule 3745-21-07(G)(1)	3 lbs/hr and 15 lbs/day of organic compounds from liquid organic materials

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day that a liquid organic material is used in this emissions unit:
 - a. the company identification of each liquid organic material employed;
 - b. the number of gallons of each liquid organic material employed;
 - c. the organic compound content of each liquid organic material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all liquid organic materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The liquid organic material information must be for the liquid organic material as employed, including any thinning solvents added at the emissions unit. Also, the definition of "liquid organic material" is based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from all liquid organic materials exceeded 3 lbs/hr, and the average hourly organic compound emissions for each such day; and

- b. an identification of each day during which the organic compound emissions from all liquid organic materials exceeded 15 lbs/day, and the organic compound emissions for each such day.
- 2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

Emission Limitations:

3 lbs/hr and 15 lbs/day of organic compounds from liquid organic material

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010066 Emissions Unit ID: P012 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P013 Issuance type: Title V Preliminary 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>
decorating and firing of glassware, <10 MMBtu direct gas fired with no control	OAC rule 3745-18-06(B)	exemption from SO2 emission limitations
	OAC rule 3745-21-07(G)(1)	3 lbs/hr and 15 lbs/day of organic compounds from liquid organic materials

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

- 1. None

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

- 1. The permittee shall collect and record the following information for each day that a liquid organic material is used in this emissions unit:
 - a. the company identification of each liquid organic material employed;
 - b. the number of gallons of each liquid organic material employed;
 - c. the organic compound content of each liquid organic material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all liquid organic materials employed in this emissions unit, in lbs/day;

- e. the total number of hours this emissions unit was in operation using liquid organic materials; and
- f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The liquid organic material information must be for the liquid organic material as employed, including any thinning solvents added at the emissions unit. Also, the definition of "liquid organic material" is based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from all liquid organic materials exceeded 3 lbs/hr, and the average hourly organic compound emissions for each such day; and
 - b. an identification of each day during which the organic compound emissions from all liquid organic materials exceeded 15 lbs/day, and the organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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V. Testing Requirements

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

Emission Limitations:

3 lbs/hr and 15 lbs/day of organic compounds from liquid organic material

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010066 Emissions Unit ID: P013 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P014 Issuance type: Title V Preliminary 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>
decorating and firing of glassware, <10 MMBtu direct gas fired with no control	OAC rule 3745-18-06(B)	exemption from SO2 emission limitations
	OAC rule 3745-21-07(G)(1)	3 lbs/hr and 15 lbs/day of organic compounds from liquid organic materials

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day that a liquid organic material is used in this emissions unit:
 - a. the company identification of each liquid organic material employed;
 - b. the number of gallons of each liquid organic material employed;
 - c. the organic compound content of each liquid organic material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all liquid organic materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The liquid organic material information must be for the liquid organic material as employed, including any thinning solvents added at the emissions unit. Also, the definition of "liquid organic material" is based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from all liquid organic materials exceeded 3 lbs/hr, and the average hourly organic compound emissions for each such day; and
 - b. an identification of each day during which the organic compound emissions from all liquid organic materials exceeded 15 lbs/day, and the organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

Emission Limitations:

3 lbs/hr and 15 lbs/day of organic compounds from liquid organic material

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010066 Emissions Unit ID: P014 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010066 Emissions Unit ID: P015 Issuance type: Title V Preliminary 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>
decorating and firing of glassware, <10 MMBtu direct gas fired with no control	OAC rule 3745-18-06(B)	exemption from SO2 emission limitations
	OAC rule 3745-21-07(G)(1)	3 lbs/hr and 15 lbs/day of organic compounds from liquid organic materials

2. **Additional Terms and Conditions**

(a) None

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II. **Operational Restrictions**

1. None

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

1. The permittee shall collect and record the following information for each day that a liquid organic material is used in this emissions unit:
- the company identification of each liquid organic material employed;
 - the number of gallons of each liquid organic material employed;
 - the organic compound content of each liquid organic material employed, in lbs/gallon;
 - the total daily organic compound emission rate for all liquid organic materials employed in this emissions unit, in lbs/day;
 - the total number of hours this emissions unit was in operation using liquid organic materials; and
 - the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The liquid organic material information must be for the liquid organic material as employed, including any thinning solvents added at the emissions unit. Also, the definition of "liquid organic material" is based upon OAC rule 3745-21-01(C).]

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
- an identification of each day during which the average hourly organic compound emissions from all liquid organic materials exceeded 3 lbs/hr, and the average hourly organic compound emissions for each such day; and
 - an identification of each day during which the organic compound emissions from all liquid organic materials exceeded 15 lbs/day, and the organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

Emission Limitations:

3 lbs/hr and 15 lbs/day of organic compounds from liquid organic material

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010066 Emissions Unit ID: P015 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010066 Emissions Unit ID: P017 Issuance type: Title V Preliminary 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>
decorating and firing of glassware, <10 MMBtu direct gas fired with no control	OAC rule 3745-18-06(B)	exemption from SO2 emission limitations
	OAC rule 3745-21-07(G)(1)	3 lbs/hr and 15 lbs/day of organic compounds from liquid organic materials

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day that a liquid organic material is used in this emissions unit:
 - a. the company identification of each liquid organic material employed;
 - b. the number of gallons of each liquid organic material employed;
 - c. the organic compound content of each liquid organic material employed, in lbs/gallon;
 - d. the total daily organic compound emission rate for all liquid organic materials employed in this emissions unit, in lbs/day;
 - e. the total number of hours this emissions unit was in operation using liquid organic materials; and
 - f. the average hourly organic compound emission rate, i.e., (d)/(e), in lbs/hr (average).

[Note: The liquid organic material information must be for the liquid organic material as employed, including any thinning solvents added at the emissions unit. Also, the definition of "liquid organic material" is based upon OAC rule 3745-21-01(C).]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from all liquid organic materials exceeded 3 lbs/hr, and the average hourly organic compound emissions for each such day; and
 - b. an identification of each day during which the organic compound emissions from all liquid organic materials exceeded 15 lbs/day, and the organic compound emissions for each such day.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.1.c of this permit.

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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:

Emission Limitations:

3 lbs/hr and 15 lbs/day of organic compounds from liquid organic material

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the liquid organic materials.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: P017 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010066 Emissions Unit ID: P021 Issuance type: Title V Preliminary 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>
molds coated with cork dust, at a maximum process rate weight of 181 pounds per hour with no control	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(1)	0.82 lb/hr of particulates

2. Additional Terms and Conditions

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

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II. **Operational Restrictions**

1. None

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

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

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IV. **Reporting Requirements**

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

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V. **Testing Requirements**

1. Compliance with the emission limitations in section A.I.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:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1. If required, compliance shall be demonstrated in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

0.82 lb/hr of particulates

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010066 Emissions Unit ID: P021 Issuance type: Title V Preliminary 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: 0448010066 Emissions Unit ID: P022 Issuance type: Title V Preliminary 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>
3.00 tons per hour glass melting furnace "F" with no controls	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(1)	8.6 lbs/hr of particulates
	OAC rule 3745-18-06(E)(2)	63 lbs/hr of sulfur dioxide

2. Additional Terms and Conditions

- a. Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, from the stack, except as provided by rule.
- b. This emissions unit can be fired with natural gas and #2 fuel oil. However, #2 fuel oil shall be employed as a standby fuel and shall be employed only on an emergency basis. SO2 emissions from fuel combustion are considered to be a small fraction of the SO2 emissions. Most SO2 emissions are generated from impurities in the feed stock material. Because the potential to emit for SO2, based upon the AP-42 emission factor, is well below the allowable emission rate, there is no need for monitoring, record keeping, and reporting requirements to ensure ongoing compliance with the allowable emission rate.

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate 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.I.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:

Compliance shall be demonstrated through the record keeping requirements of section A.III.1 or, if required, through visible emissions readings taken in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

8.6 lbs/hr of particulates

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) particulate emission factor of 1.4 pounds of particulates per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-17-03(B)(10).
 - c. Emission Limitation:

63 lbs/hr of sulfur dioxide

Applicable Compliance Method:

Multiply the AP-42 (Table 11.15-1, 1/95 Edition) sulfur dioxide emission factor of 3.4 pounds of sulfur dioxide emissions per ton of glass produced by the daily average production rate of glass, in tons per hour, established through the record keeping requirements of section A.III.2.

OR

If required, the permittee shall perform emission testing in accordance with the methods and procedures of OAC rule 3745-18-04(E)(1).
2. If required, 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 to demonstrate compliance with the allowable mass emission rate(s) for particulates and/or sulfur dioxide.
- b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 and Method 6 of 40 CFR Part 60, Appendix A for particulate and sulfur dioxide emissions, respectively. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
- c. The permittee shall burn only #2 fuel oil in this emissions unit during the test.

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 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: 0448010066 Emissions Unit ID: P022 Issuance type: Title V Preliminary 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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Facility ID: 0448010066 Issuance type: Title V Preliminary Proposed Permit

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Facility ID: 0448010066 Emissions Unit ID: P024 Issuance type: Title V Preliminary 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>
hard chrome plating of molds	OAC rule 3745-31-05 (PTI 04-0877)	See A.I.2.a below.
	40 CFR Part 63, Subparts A and N	

2. Additional Terms and Conditions

- a. The permittee shall not allow the concentration of total chromium in the exhaust gases discharged to the atmosphere to exceed 0.03 mg/dscm (1.3x10⁻⁵ gr/dscf).

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II. Operational Restrictions

- 1. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain any chromium electroplating or anodizing tank, including associated air pollution control devices and monitoring equipment, in a manner consistent with the operation and maintenance plan required by these terms and conditions.
- 2. Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan.
- 3. Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the appropriate Ohio EPA District Office or local air agency, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures, and records; and inspection of the emission unit. Based on this information, the appropriate Ohio EPA District Office or local air agency may require that the permittee make changes to the operation and maintenance plan if that plan:

- a. does not address a malfunction that has occurred;
- b. fails to provide for the operation of the emission units, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution practices; or
- c. does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, or monitoring equipment as quickly as practicable.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall prepare an operation and maintenance plan to be implemented no later than the date of issuance of this permit. The plan shall be incorporated by reference into the Title V permit and include the following elements:
 - a. The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the emissions limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of the equipment.
 - b. The O/M plan shall incorporate the following work practice standards:
 - i. visually inspect the device at least once per quarter to ensure there is proper drainage, no chromic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device;
 - ii. visually inspect at least once per quarter the back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist;
 - iii. visually inspect at least once per quarter the ductwork from the tank to the control device to ensure there are no leaks; and
 - iv. perform washdown of the composite mesh-pads in accordance with manufacturer's recommendations.
 - c. If a pitot tube is used for monitoring, the O/M plan shall incorporate the following work practice standards to be performed at least once per quarter:
 - i. backflush with water, or remove from the duct and rinse with fresh water;
 - ii. replace in the duct and rotate 180 degrees to ensure that the same zero reading is obtained; and
 - iii. check pitot tube ends for damage and replace pitot tube if cracked or fatigued.
 - d. The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.
 - e. The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment, and for implementing corrective actions to address such malfunctions.
 - f. If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the permittee shall revise the operation and maintenance plan within 45 days after such an event occurs.
 - g. If actions taken by the permittee during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan, the permittee shall record the actions taken for that event and shall report such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the permittee makes alternative reporting arrangements, in advance, with the appropriate Ohio EPA District Office or local air agency.
 - h. The permittee shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the appropriate Ohio EPA District Office or local air agency for the life of the emissions unit. If the operation and maintenance plan is revised, the permittee shall keep previous versions of the plan on record to be made available for inspection, upon request, by the appropriate Ohio EPA District Office or local air agency for a period of five years after each revision to the plan.
 - i. The permittee may use applicable standard operating procedure (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans to meet the operation and maintenance plan requirements as long as the alternative plans meet the requirements.
2.
 - a. During the initial performance test, the permittee shall determine the outlet chromium concentration using the methods as described in the "Testing Requirements" section of this permit to comply with the emission limitation through the use of a packed-bed scrubber and composite mesh-pad system. The permittee shall establish as a site-specific operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation, using the procedures in the "Testing Requirements" section of this permit.
 - b. The permittee may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliance value the average pressure drop measured over the three test runs of one performance test and accept plus or minus one inch of water column from this value as the compliant range.
 - c. On and after the date on which the initial performance test is required to be completed under Section

- 63.7 of 40 CFR Part 63, Subpart A, the permittee shall monitor and record the pressure drop across the composite mesh-pad system once each day that the emissions unit is operating. To be in compliance, the composite mesh-pad system shall be operated within plus or minus one inch of water column of the pressure drop value established during the initial performance test, or shall be operated within the range of compliant values for pressure drop established during multiple performance tests.
3. The permittee shall fulfill all recordkeeping requirements in the General Provisions to 40 CFR Part 63, according to the applicability of Subpart A.
 4. The permittee also shall maintain the following records:
 - a. inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of this permit have taken place (The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.);
 - b. records of all maintenance performed on the emissions unit, add-on air pollution control device, and monitoring equipment;
 - c. records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control device, and monitoring equipment;
 - d. records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;
 - e. other records, which may take the form of checklists, necessary to demonstrate consistence with the provisions of the operation and maintenance plan;
 - f. test reports documenting results of all performance tests;
 - g. all measurements as may be necessary to determine the conditions of performance tests;
 - h. records of monitoring data that are used to demonstrate compliance with the standard including the date and time the data are collected;
 - i. the specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control device, or monitoring equipment;
 - j. the specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control device, or monitoring equipment;
 - k. the total process operating time of the emissions unit during the reporting period; and
 - l. all documentation supporting the notifications and reports as outlined in the reporting requirements of this permit and sections 63.9 and 63.10 of 40 CFR Part 63, Subpart A.

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IV. Reporting Requirements

1. The permittee shall fulfill all reporting requirement as outlined in 40 CFR Part 63, Subpart A. These reports shall be made to the appropriate Ohio EPA District Office or local air agency and shall be sent by U.S. mail, fax or by another courier.
 - a. Submittals sent by U.S. mail shall be postmarked on or before the specified date.
 - b. Submittals sent by other methods shall be received by the appropriate Ohio EPA District Office or local air agency on or before the specified date.
2. The permittee shall submit to the appropriate Ohio EPA District Office or local air agency an initial notification report no later than July 24, 1995 that contains the following information:
 - a. the name, title, and address of the owner or operator;
 - b. the address (i.e., physical location) of the emissions unit;
 - c. identification of the applicable emission limitations and compliance date;
 - d. a statement of whether the affected emissions unit is located at a major source or at an area source;
 - e. a brief description of each affected emissions unit, including the type of process operation performed;
 - f. the maximum potential cumulative potential rectifier capacity;
 - g. a statement of whether the emissions unit is located at a small or a large, hard chromium facility and whether this will be demonstrated through actual or maximum potential cumulative rectifier capacity; and
 - h. a statement of whether the permittee will limit the maximum potential cumulative rectifier capacity such that the hard chromium electroplating facility is considered small.
3. The permittee shall submit a Notification of Compliance Status to the appropriate Ohio EPA District Office or local air agency 90 days after the performance test is completed, signed by the responsible official who shall certify its accuracy, attesting to whether the affected emissions unit is in compliance. The notification

shall list for each affected emissions unit:

- a. the applicable emission limitations and the methods that were used to determine compliance with this limitation;
 - b. if a performance test is required, the test report documenting the results of the performance test, which includes the elements required in the Test Requirements section of this permit, including measurements and calculations to support special compliance provisions for multiple emissions units controlled by a common add-on air pollution control device;
 - c. the type and quantity of hazardous air pollutants emitted by the emissions unit reported in mg/dscm or mg/hr if the emissions unit is using the special provisions for multiple emissions units controlled by a common add-on air pollution control device (For emissions units not required to conduct a performance test, the surface tension measurement may fulfill this requirement.);
 - d. for each monitored parameter for which a compliant value was established, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;
 - e. the methods that will be used to determine continuous compliance;
 - f. a description of the air pollution control technique used for each emission point;
 - g. a statement that the permittee has completed and has on file the operation and maintenance plan as required by the work practice standards; and
 - h. a statement by the permittee as to whether the emissions unit is in compliance.
4. The permittee shall report to the appropriate Ohio EPA District Office or local air agency the results of any performance test conducted. The report shall be submitted no later than 90 days following the completion of the performance test, and shall be submitted as part of the notification of compliance status report required by this section.
5. The permittee shall prepare an ongoing compliance status report annually (unless a request to reduce frequency of ongoing compliance status reports has been approved) to the appropriate Ohio EPA District Office or local air agency to document the ongoing compliance status of the emissions unit. This report shall include the following:
- a. the company name and address of the emissions unit;
 - b. an identification of the operating parameter that is monitored for compliance determination;
 - c. the relevant emission limitation for the emissions unit, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the Notification of Compliance Status required by this section;
 - d. the beginning and ending dates of the reporting period;
 - e. the total operating time of the emissions unit during the reporting period;
 - f. a summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total emissions unit operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes;
 - g. a certification by a responsible official that the work practice standards in this permit were followed in accordance with the operation and maintenance plan for the emissions unit;
 - h. if the operation and maintenance plan required by this permit was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the reports required by the work practices in this permit;
 - i. a description of any changes in monitoring, processes, or controls since the last reporting period;
 - j. the name, title, and signature of the responsible official who is certifying the accuracy of the report; and
 - k. the date of the report.
6. The permittee shall submit semiannual reports if the following conditions are met:
- a. the total duration of excess emissions is one percent or greater of the total operating time for the reporting period; and
 - b. the total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5 percent or greater of the total operating time.
7. Once the permittee reports an exceedance, ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency is approved.
8. The appropriate Ohio EPA District Office or local air agency may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the emissions unit.
9. The permittee who is required to submit ongoing compliance status reports on a semiannual (or more frequent) basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual and/or be allowed to maintain the annual report on site if all of the following

conditions are met:

- a. for 1 full year (e.g., 2 semiannual or 4 quarterly reporting periods), the ongoing compliance status reports demonstrate that the affected emissions unit is in compliance with the relevant emission limit;
- b. the permittee continues to comply with all applicable recordkeeping and monitoring requirements of 40 CFR Part 63, Subpart A and this permit; and
- c. the appropriate Ohio EPA District Office or local air agency does not object to a reduced reporting frequency. The frequency of submitting ongoing compliance status reports may be reduced if the following requirements are met:
 - i. The permittee notifies the appropriate Ohio EPA District Office or local air agency in writing of its intentions to make such a change. The Toledo Division of Environmental Services may review information concerning the facility's previous performance history during the 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the emissions unit's compliance date, whichever is shorter. Records subject to review include performance test results, monitoring data, and evaluations of the permittee's conformance with emission limitations and work practice standards. If the permittee's request is disapproved, the appropriate Ohio EPA District Office or local air agency will notify the permittee in writing within 45 days after receiving notice. This notification will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
 - ii. If monitoring data show that the emissions unit is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the permittee shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the permittee may again request approval to reduce the reporting frequency.

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V. Testing Requirements

1. Performance test results shall be documented in complete test reports that contain the following information:
 - a. a brief process description;
 - b. sampling location description(s);
 - c. a description of sampling and analytical procedures and any modifications to standard procedures;
 - d. test results;
 - e. quality assurance procedures and results;
 - f. records of operating conditions during testing, preparation of standards, and calibration procedures;
 - g. raw data sheets for field sampling and field and laboratory analyses;
 - h. documentation of calculations; and
 - i. any other information required by the test method.

The test plan shall be made available to the appropriate Ohio EPA District Office or local air agency prior to testing, if requested.
2. If required, the permittee shall use the following test methods to conduct a performance test:
 - a. Method 306 or Method 306A, "Determination of Chromium Emissions From Decorative and Hard Chromium Electroplating and Anodizing Operations" shall be used to determine the chromium concentration from hard or decorative chromium electroplating tanks or chromium anodizing tanks.
 - i. The sampling time and sample volume for each run of Methods 306 and 306A shall be at least 120 minutes and 1.7 dscm (60 dscf), respectively.
 - ii. Methods 306 and 306A allow the measurement of either total chromium or hexavalent chromium emissions. Emissions units using chromic acid baths can demonstrate compliance with the emission limits by measuring either the total chromium or hexavalent chromium concentration. Hence, the hexavalent chromium concentration measured by these methods is equal to the total chromium concentration for the affected operations.
 - b. The California Air Resources Board (CARB) Method 425 may be used to determine the chromium concentration from hard and decorative chromium electroplating tanks and chromium anodizing tanks if the following conditions are met:
 - i. If a colorimetric analysis method is used, the sampling time and volume shall be sufficient to result in 33-66 micrograms of catch in the sampling train.
 - ii. If an Atomic Absorption Graphite Furnace (AAGF) or Ion Chromatography (with a Post-column Reactor (ICPCR) analyses) is used, the sampling time and volume shall be sufficient to result in a sample catch that is 5 to 10 times the minimum detection limit of the analytical method (i.e., 1.0 microgram per liter of sample for AAGF and 0.5 microgram per liter of sample for ICPCR).
 - iii. A minimum of three separate runs must be conducted. The other requirements of Section 63.7 of 40 CFR Part 63, Subpart A must also be met.
 3. The permittee shall measure the pressure drop across the add-on air pollution control device in accordance with the following guidelines:

- a. Pressure taps shall be installed at any of the following locations:
 - i. At the inlet and outlet of the control system. The inlet tap should be installed in the ductwork just prior to the control device and the corresponding outlet pressure tap should be installed on the outlet side of the control device prior to the blower or on the downstream side of the blower.
 - ii. On each side of the packed bed within the control system or on each side of each mesh pad within the control system.
 - iii. On the front side of the first mesh pad and back side of the last mesh pad within the control system.
- b. Pressure taps shall be sited at locations that are:
 - i. As free from pluggage as possible and away from any flow disturbances such as cyclonic demisters.
 - ii. Situated such that no air infiltration at the measurement site will occur that could bias the measurement.
- c. Pressure taps shall be constructed of either polyethylene, polybutylene, or other nonreactive materials.
- d. Nonreactive plastic tubing shall be used to connect the pressure taps to the device used to measure pressure drop.
- e. Any of the following pressure gauges can be used to monitor pressure drop: a magnehelic gauge, an included manometer, or a "U" tube manometer.
- f. Prior to connecting any pressure lines to the pressure gauge(s), each gauge shall be zeroed. No calibration of the pressure gauges is required.

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VI. **Miscellaneous Requirements**

- 1. None

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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