

Facility ID: 1677130006 Issuance type: Draft State Permit To Operate

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

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

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

- [Go to Part II for Emissions Unit B001](#)
- [Go to Part II for Emissions Unit B002](#)
- [Go to Part II for Emissions Unit B003](#)
- [Go to Part II for Emissions Unit B004](#)
- [Go to Part II for Emissions Unit B005](#)
- [Go to Part II for Emissions Unit B007](#)
- [Go to Part II for Emissions Unit B008](#)
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Facility ID: 1677130006 Emissions Unit ID: B001 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
180 MMBtu/hr natural gas or oil-fired boiler	OAC 3745-17-07 (A) OAC 3745-17-10	0.020 pound of particulate matter emissions per million Btu of actual heat input.
When burning natural gas:	OAC 3745-18-83 (V)	
When burning #2 distillate fuel oil:	OAC 3745-17-07 (A) OAC 3745-17-10 OAC 3745-18-83 (V) 40 CFR 52.1881 (59) (xxi)	0.020 pound of particulate matter emissions per million Btu of actual heat input; and 0.84 pound of sulfur dioxide emissions per million Btu of actual heat input.

2. Additional Terms and Conditions

- (a) The total NOx emissions from all the fuel burning equipment at this facility shall not exceed 78.4 tons, based upon a rolling, 12-month summation.
The NOx emissions from this emissions unit shall not exceed 20.6 tons, based upon a rolling, 12-month summation.

B. Operational Restrictions

1. The permittee has agreed to accept limitations on natural gas and fuel oil consumption to keep the facility NOx emissions below 100 tons per year. The emission limitations and fuel consumption restrictions are for all of the following emissions units at this facility: B001, B002, B003, B004, B005, B006, B007, B008 and all the "de minimis" fuel burning equipment at the facility such as water heaters and small space heaters.
2. To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum allowable cumulative NOx emission levels, in tons, for B001 and for the facility, as specified in the following table.

Month B001 Facility

0- 1	3.5	10.0
1- 2	7.0	16.3
1- 3	10.3	22.9
1- 4	12.0	29.4
1- 5	13.7	36.0
1- 6	15.4	42.4
1- 7	16.1	48.9
1- 8	16.8	54.5
1- 9	17.5	61.0
1-10	18.2	66.2
1-11	18.9	71.9

1-12 20.6 78.4

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual NOx emission limit, for the facility, of 78.4 tons shall be based upon a rolling, 12-month summation.

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual NOx emission limit, for emissions unit B001, of 20.6 tons shall be based upon a rolling, 12-month summation.

3. At any time #2 fuel oil is burned in one or more of the three large boilers at this facility (Ohio EPA emissions units B001, B002, and B003), the following combined average heat input rates shall not be exceeded for any such calendar day:
 - a. 1st quarter (Jan.- Mar.), 96 MMBtu per hour;
 - b. 2nd quarter (Apr.- June), 96 MMBtu per hour;
 - c. 3rd quarter (July - Sept.), 67 MMBtu per hour; and
 - d. 4th quarter (Oct.- Dec.), 96 MMBtu per hour.
4. The quality of the #2 fuel oil burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.84 pound sulfur dioxide/mmBtu actual heat input; and
 - b. greater than 140,000 Btu/gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the equation in term E1.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records which list the following information:
 - a. total amount of natural gas and/or fuel oil consumed at the facility;
 - b. the amount of natural gas and/or fuel oil consumed by emissions unit B001;
 - c. facility-wide NOx emissions, in tons;
 - d. the NOx emissions from emissions unit B001;
 - e. the cumulative totals of the B001 and facility-wide NOx emissions during the first twelve months of operation following the issuance of this permit; and
 - f. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summations of the NOx emissions from B001 and the facility.
2. Requirements for the Sampling and Analysis of the Oil Burned

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 total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emission rate in lb/mmBtu.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month, facility-wide NOx emission limitation and NOx emission limitation for B001, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum, monthly allowable cumulative facility-wide NOx emission limitation and NOx emission limitation for B001, along with the cause of the exceedances and an explanation of any corrective actions taken to prevent future exceedances.
2. For each quarter in which oil is received for burning in this emissions unit, the permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons); and
 - b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil.

These quarterly reports shall be submitted by January 15, April 15, July 15, and October 15 of each year, when oil has been burned in the previous quarter, and shall cover the oil shipments received during the previous calendar quarter.
3. The permittee shall submit annual reports which identify the following information for the calendar year:
 - a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
 - b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
 - c. total NOx emissions for B001, in tons; and
 - d. total facility-wide NOx emissions, in tons.

These reports shall be submitted by February 15 of each year and shall include the data for the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1 and A.2 of these terms and conditions shall be

determined in accordance with the following methods:

When burning natural gas:

Emission Limitation:

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

Applicable Compliance Method:

Multiply the particulate emission factor of 5 pounds of particulate emissions per million cubic feet of natural gas burned by the maximum hourly rate of .18 million cubic feet per hour, and divide by the maximum hourly heat input capacity (180 MMBtu/hr). The particulate emission factor was obtained from AP-42, Chapter 1.4, Table 1.4-2.

When burning #2 distillate fuel oil:

Emission Limitation:

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

Applicable Compliance Method:

Multiply the particulate emission factor of .002 pound of particulate emissions per gallon of distillate fuel oil burned by the amount of distillate fuel oil burned, and divide the result by the total Btu's in the fuel burned. The particulate emission factor was obtained from AP-42, Chapter 1.3, Table 1.3-5, dated 10/96. OAC rule 3745-17-03(B)(10) may be used in place of the above calculations.

When burning #2 distillate fuel oil:

Emission Limitation:

0.84 pound of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate.

2. Emission Limitation:

20.6 TPY nitrogen oxides

Applicable Compliance Method:

The NOx emissions for this emissions unit (B001) for each calendar month shall be calculated in accordance with the following equation:

$$[(0.02Y)+(0.00055Z)] / 2000 = \text{NOx}$$

Where:

Y = amount of #2 fuel oil combusted during the month, in gallons.

Z = amount of natural gas combusted during the month, in cubic feet.

NOx = nitrogen oxides emissions, in tons.

The emission factors in the equation above come from AP-42, Chapter 1, dated 10/96.

The calculated NOx emission rate for each month shall be added to the calculated emissions from the prior 11 months to determine the rolling, 12-month summations.

3. Emission Limitation:

78.4 TPY nitrogen oxides

Applicable Compliance Method:

The facility NOx emissions for each calendar month shall be calculated in accordance with the following equation:

$$[(0.00014X)+(0.02Y)+(0.00055Z)] / 2000 = \text{NOx}$$

Where:

X = amount of natural gas combusted during the month in all of the emissions units listed in Section B.1 above, except B001, in cubic feet.

Y = amount of #2 fuel oil combusted during the month, in all of the above-mentioned emissions units, in gallons.

Z = amount of natural gas combusted during the month in B001, in cubic feet.

NOx = nitrogen oxides emissions, in tons.

The emission factors in the equation above come from AP-42, Chapter 1, dated 10/96.

The calculated NOx emission rate for each month shall be added to the calculated emissions from the prior 11 months to determine the rolling, 12-month summations.

F. Miscellaneous Requirements

1. Sections A, B, C, D, E, and F of these terms and conditions constitute the federally enforceable portions of this permit.

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Facility ID: 1677130006 Emissions Unit ID: B002 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
78 MMBtu/hr natural gas or oil-fired boiler	OAC 3745-17-07 (A) OAC 3745-17-10	0.020 pound of particulate matter emissions per million Btu of actual heat input.
When burning natural gas:	OAC 3745-18-83 (V)	
When burning #2 distillate fuel oil:	OAC 3745-17-07 (A) OAC 3745-17-10 OAC 3745-18-83 (V) 40 CFR 52.1881 (59) (xxi)	0.020 pound of particulate matter emissions per million Btu of actual heat input; and 1.19 pounds of sulfur dioxide emissions per million Btu of actual heat input.

2. Additional Terms and Conditions

- (a) The total NOx emissions from all the fuel burning equipment at this facility shall not exceed 78.4 tons, based upon a rolling, 12-month summation.

B. Operational Restrictions

1. The permittee has agreed to accept limitations on natural gas and fuel oil consumption to keep the facility NOx emissions below 100 tons per year. The emission limitations and fuel consumption restrictions are for all of the following emissions units at this facility: B001, B002, B003, B004, B005, B006, B007, B008 and all the "de minimis" fuel burning equipment at the facility such as water heaters and small space heaters.
2. To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum allowable cumulative NOx emission levels, in tons, for B001 and for the facility, as specified in the following table.

Month Facility
0- 1 10.0
1- 2 16.3
1- 3 22.9
1- 4 29.4
1- 5 36.0
1- 6 42.4
1- 7 48.9
1- 8 54.5
1- 9 61.0
1-10 66.2
1-11 71.9
1-12 78.4

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual NOx emission limit, for the facility, of 78.4 tons shall be based upon a rolling, 12-month summation.

3. At any time #2 fuel oil is burned in one or more of the three large boilers at this facility (Ohio EPA emissions units: B001, B002, and B003), the following combined average heat input rates shall not be exceeded for any such calendar day:
 - a. 1st quarter (Jan.- Mar.), 96 MMBtu per hour;
 - b. 2nd quarter (Apr.- June), 96 MMBtu per hour;

- c. 3rd quarter (July - Sept.), 67 MMBtu per hour; and
- d. 4th quarter (Oct.- Dec.), 96 MMBtu per hour.

- 4. The quality of the oil burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.84 pounds sulfur dioxide/mmmBtu actual heat input; and
 - b. greater than 140,000 Btu/gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the equation in term E1.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records which list the following information:
 - a. total amount of natural gas and/or fuel oil consumed in the facility;
 - b. the amount of natural gas and/or fuel oil consumed in emissions unit B001;
 - c. facility-wide NOx emissions, in tons;
 - d. the NOx emissions from emissions unit B001;
 - e. the cumulative totals of the B001 and facility-wide NOx emissions during the first twelve months of operation following the issuance of this permit; and
 - f. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summations of the NOx emissions from B001 and the facility.

- 2. Requirements for the Sampling and Analysis of the Oil Burned

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 total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO₂ emission rate in lb/mmmBtu.

D. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month, facility-wide NOx emission limitation and NOx emission limitation for B001, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum, monthly allowable cumulative facility-wide NOx emission limitation and NOx emission limitation for B001, along with the cause of the exceedances and an explanation of any corrective actions taken to prevent future exceedances.
- 2. For each quarter in which oil is received for burning in this emissions unit, the permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons); and
 - b. the calculated sulfur dioxide emission rate (pound/mmmBtu) for each shipment of oil.

These quarterly reports shall be submitted by January 15, April 15, July 15, and October 15 of each year, when oil has been burned in the previous quarter, and shall cover the oil shipments received during the previous calendar quarter.

- 3. The permittee shall submit annual reports which identify the following information for the calendar year:
 - a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
 - b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
 - c. total NOx emissions for B001, in tons; and
 - d. total facility-wide NOx emissions, in tons.

These reports shall be submitted by February 15 of each year and shall include the data for the previous calendar year.

E. Testing Requirements

- 1. Compliance with the emission limitations in Sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
When burning natural gas:

Emission Limitation:

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

Applicable Compliance Method:

Multiply the particulate emission factor of 13.8 pounds of particulate emissions per million cubic feet of natural gas burned by the maximum hourly rate of .78 million cubic feet per hour, and divide by the maximum hourly heat input capacity (78 MMBtu/hr). The particulate emission factor was obtained from AP-42, Chapter 1.4, Table 1.4-2, dated October 96.

When burning #2 distillate fuel oil:

Emission Limitation:

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

Applicable Compliance Method:

Multiply the particulate emission factor of .002 pound of particulate emissions per gallon of distillate fuel oil burned by the amount of distillate fuel oil burned, and divide the result by the total Btu's in the fuel burned. The particulate emission factor was obtained from AP-42, Chapter 1.3, Table 1.3-5, dated 10/96. OAC rule 3745-17-03(B)(10) may be used in place of the above calculations.

When burning #2 distillate fuel oil:

Emission Limitation:

0.84 pound of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate.

2. Emission Limitation:

78.4 TPY nitrogen oxides

Applicable Compliance Method:

The facility NOx emissions for each calendar month shall be calculated in accordance with the following equation:

$$[(0.00014X)+(0.02Y)+(0.00055Z)] / 2000 = \text{NOx}$$

Where:

X = amount of natural gas combusted during the month in all of the emissions units listed in Section B.1 above, except B001, in cubic feet.

Y = amount of #2 fuel oil combusted during the month, in all of the above-mentioned emissions units, in gallons.

Z = amount of natural gas combusted during the month in B001, in cubic feet.

NOx = nitrogen oxides emissions, in tons.

The emission factors in the equation above come from AP-42, Chapter 1, dated 10/96.

The calculated NOx emission rate for each month shall be added to the calculated emissions from the prior 11 months to determine the rolling, 12-month summations.

F. **Miscellaneous Requirements**

1. Sections A, B, C, D, E, and F of these terms and conditions constitute the federally enforceable portion of this permit.

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

Facility ID: 1677130006 Emissions Unit ID: B003 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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78 MMBtu/hr natural gas or oil-fired boiler	OAC 3745-17-07 (A) OAC 3745-17-10	0.020 pound of particulate matter emissions per million Btu of actual heat input.
When burning natural gas:	OAC 3745-18-83 (V)	
When burning #2 distillate fuel oil:	OAC 3745-17-07 (A) OAC 3745-17-10 OAC 3745-18-83 (V) 40 CFR 52.1881 (59) (xxi)	0.020 pound of particulate matter emissions per million Btu of actual heat input; and 1.19 pound of sulfur dioxide emissions per million Btu of actual heat input.

2. **Additional Terms and Conditions**

- (a) The total NOx emissions from all the fuel burning equipment at this facility shall not exceed 78.4 tons, based upon a rolling, 12-month summation.

B. **Operational Restrictions**

- 1. The permittee has agreed to accept limitations on natural gas and fuel oil consumption to keep the facility NOx emissions below 100 tons per year. The emission limitations and fuel consumption restrictions are for all of the following emissions units at this facility: B001, B002, B003, B004, B005, B006, B007, B008 and all the "de minimis" fuel burning equipment at the facility such as water heaters and small space heaters.
- 2. To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the maximum allowable cumulative NOx emission levels, in tons, for B001 and for the facility, as specified in the following table.

Month	Facility
0-	1 10.0
1-	2 16.3
1-	3 22.9
1-	4 29.4
1-	5 36.0
1-	6 42.4
1-	7 48.9
1-	8 54.5
1-	9 61.0
1-	10 66.2
1-	11 71.9
1-	12 78.4

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual NOx emission limit, for the facility, of 78.4 tons shall be based upon a rolling, 12-month summation.

- 3. At any time #2 fuel oil is burned in one or more of the three large boilers at this facility (Ohio EPA emissions units: B001, B002, and B003), the following combined average heat input rates shall not be exceeded for any such calendar day:
 - a. 1st quarter (Jan.- Mar.), 96 MMBtu per hour;
 - b. 2nd quarter (Apr.- June), 96 MMBtu per hour;
 - c. 3rd quarter (July - Sept.), 67 MMBtu per hour; and
 - d. 4th quarter (Oct.- Dec.), 96 MMBtu per hour.
- 4. The quality of the #2 fuel oil burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.84 pounds sulfur dioxide/mmmBtu actual heat input; and
 - b. greater than 140,000 Btu/gallon of oil.

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

- 1. The permittee shall maintain monthly records which list the following information:
 - a. total amount of natural gas and/or fuel oil consumed at the facility;
 - b. the amount of natural gas and/or fuel oil consumed by emissions unit B001;
 - c. facility-wide NOx emissions, in tons;
 - d. the NOx emissions from emissions unit B001;
 - e. the cumulative totals of the B001 and facility-wide NOx emissions during the first twelve months of operation following the issuance of this permit; and
 - f. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summations of the NOx emissions from B001 and the facility.
- 2. Requirements for the Sampling and Analysis of the Oil Burned

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 total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emission rate in lb/mmBtu.

D. **Reporting Requirements**

- 1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month, facility-wide NOx emission limitation and NOx emission limitation for B001, and, for the first 12 calendar months

of operation following the issuance of this permit, all exceedances of the maximum, monthly allowable cumulative facility-wide NOx emission limitation and NOx emission limitation for B001, along with the cause of the exceedances and an explanation of any corrective actions taken to prevent future exceedances.

2. For each quarter in which oil is received for burning in this emissions unit, the permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

- a. the total quantity of oil received in each shipment (gallons); and
- b. the calculated sulfur dioxide emission rate (pound/mmBtu) for each shipment of oil.

These quarterly reports shall be submitted by January 15, April 15, July 15, and October 15 of each year, when oil has been burned in the previous quarter, and shall cover the oil shipments received during the previous calendar quarter.

3. The permittee shall submit annual reports which identify the following information for the calendar year:

- a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
- b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
- c. total NOx emissions for B001, in tons; and
- d. total facility-wide NOx emissions, in tons.

These reports shall be submitted by February 15 of each year and shall include the data for the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
When burning natural gas:

Emission Limitation:

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

Applicable Compliance Method:

Multiply the particulate emission factor of 13.8 pounds of particulate emissions per million cubic feet of natural gas burned by the maximum hourly rate of .78 million cubic feet per hour, and divide by the maximum hourly heat input capacity (78 MMBtu/hr). The particulate emission factor was obtained from AP-42, Chapter 1.4, Table 1.4-2, dated October 96.

When burning #2 distillate fuel oil:

Emission Limitation:

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

Applicable Compliance Method:

Multiply the particulate emission factor of .002 pound of particulate emissions per gallon of distillate fuel oil burned by the amount of distillate fuel oil burned, and divide the result by the total Btu's in the fuel burned. The particulate emission factor was obtained from AP-42, Chapter 1.3, Table 1.3-5, dated 10/96. OAC rule 3745-17-03(B)(10) may be used in place of the above calculations.

When burning #2 distillate fuel oil:

Emission Limitation:

0.84 pound of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate.

2. Emission Limitation:

78.4 TPY nitrogen oxides

Applicable Compliance Method:

The facility NOx emissions for each calendar month shall be calculated in accordance with the following equation:

$$[(0.00014X)+(0.02Y)+(0.00055Z)] / 2000 = \text{NOx}$$

Where:

X = amount of natural gas combusted during the month in all of the emissions units listed in Section B.1 above, except B001, in cubic feet.

Y = amount of #2 fuel oil combusted during the month, in all of the above-mentioned emissions units, in gallons.

Z = amount of natural gas combusted during the month in B001, in cubic feet.

NOx = nitrogen oxides emissions, in tons.

The emission factors in the equation above come from AP-42, Chapter 1, dated 10/96.

The calculated NOx emission rate for each month shall be added to the calculated emissions from the prior 11 months to determine the rolling, 12-month summations.

F. Miscellaneous Requirements

1. Sections A, B, C, D, E, and F of these terms and conditions constitute the federally enforceable portion of this permit.

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

Facility ID: 1677130006 Emissions Unit ID: B004 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural Gas Fired Space Heater	PTI 16-1528 OAC 3745-17-07 (A) OAC 3745-17-10	0.020 pound of particulate matter emissions per million Btu of actual heat input.

2. **Additional Terms and Conditions**
 - (a) This emissions unit shall burn natural gas only.

B. Operational Restrictions

1. The total NOx emissions from all the fuel burning equipment at this facility shall not exceed 78.4 tons, based upon a rolling, 12-month summation.
2. The permittee has agreed to accept limitations on natural gas and fuel oil consumption to keep the facility NOx emissions below 100 tons per year. The emission limitations and fuel consumption restrictions are for all of the following emissions units at this facility: B001, B002, B003, B004, B005, B006, B007, B008 and all the "de minimis" fuel burning equipment at the facility such as water heaters and small space heaters.
3. To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels, as specified in the following table.

Month Maximum allowable cumulative facility-wide NOx emission (tons per year)

- 0- 1 10.0
- 1- 2 16.3
- 1- 3 22.9
- 1- 4 29.4
- 1- 5 36.0
- 1- 6 42.4
- 1- 7 48.9
- 1- 8 54.5
- 1- 9 61.0
- 1-10 66.2
- 1-11 71.9
- 1-12 78.4

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual NOx emission limit of 78.4 tons shall be based upon a rolling, 12-month summation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records which list the following information:

- a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
- b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
- c. facility-wide NOx emissions, in tons;
- d. the cumulative total of facility-wide NOx emissions during each of the first twelve months of operation following the issuance of this permit; and
- e. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summation of the NOx emissions.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month, facility-wide NOx emission limitation, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum, monthly allowable cumulative facility-wide NOx emission limitation, along with the cause of the exceedances and an explanation of any corrective actions taken to prevent future exceedances.
2. The permittee shall submit annual reports which identify the following information:
 - a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
 - b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
 - c. facility-wide NOx emissions, in tons;
 - d. the cumulative total of the facility-wide NOx emissions during each of the first twelve months of operation following the issuance of this permit; and
 - e. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summation of the NOx emissions.

These reports shall be submitted by February 15 of each year and shall include the data for the previous calendar year.

E. Testing Requirements

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

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

Applicable Compliance Method:

Multiply the particulate emission factor of 12.2 pounds of particulate emissions per million cubic feet of natural gas burned by the maximum hourly rate of .011 million cubic feet per hour, and divide by the maximum hourly heat input capacity (10.8 MMBtu/hr). The particulate emission factor was obtained from AP-42, Chapter 1.4, Table 1.4-2, dated October 96.

Emission Limitation:

78.4 TPY nitrogen oxides

Applicable Compliance Method:

The facility NOx emissions for each calendar month shall be calculated in accordance with the following equation:

$$[(0.00014X)+(0.02Y)+(0.00055Z)] / 2000 = \text{NOx}$$

Where:

X = amount of natural gas combusted during the month in all of the emissions units listed in Section B.2 above, except B001, in cubic feet

Y = amount of #2 fuel oil combusted during the month, in all of the above-mentioned emissions units, in gallons.

Z = amount of natural gas combusted during the month in B001, in cubic feet.

NOx = nitrogen oxides emissions, in tons per year.

The emission factors in the equation above come from AP42, Chapter 1, table 1.4-1, dated 10/96.

During the first 12 calendar months of operation following the issuance of this permit, the calculated NOx emission rate for each month shall be added to the calculated emissions from the prior month(s) to determine the cumulative total for that month.

F. Miscellaneous Requirements

1. Sections A, B, C, D, E, and F of these terms and conditions constitute the federally enforceable portion of this permit.

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

Facility ID: 1677130006 Emissions Unit ID: B005 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural Gas Fired Space Heater	PTI 16-1528 OAC 3745-17-07 (A) OAC 3745-17-10	0.020 pound of particulate matter emissions per million Btu of actual heat input.

2. **Additional Terms and Conditions**
 - (a) This emissions unit shall burn natural gas only.

B. Operational Restrictions

1. The total NOx emissions from all the fuel burning equipment at this facility shall not exceed 78.4 tons, based upon a rolling, 12-month summation.
2. The permittee has agreed to accept limitations on natural gas and fuel oil consumption to keep the facility NOx emissions below 100 tons per year. The emission limitations and fuel consumption restrictions are for all of the following emissions units at this facility: B001, B002, B003, B004, B005, B006, B007, B008 and all the "de minimis" fuel burning equipment at the facility such as water heaters and small space heaters.
3. To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels, as specified in the following table.

Month Maximum allowable cumulative facility-wide NOx emission (tons per year)

- 0- 1 10.0
- 1- 2 16.3
- 1- 3 22.9
- 1- 4 29.4
- 1- 5 36.0
- 1- 6 42.4
- 1- 7 48.9
- 1- 8 54.5
- 1- 9 61.0
- 1-10 66.2
- 1-11 71.9
- 1-12 78.4

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual NOx emission limit of 78.4 tons shall be based upon a rolling, 12-month summation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records which list the following information:
 - a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
 - b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
 - c. facility-wide NOx emissions, in tons;
 - d. the cumulative total of facility-wide NOx emissions during each of the first twelve months of operation following the issuance of this permit; and
 - e. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summation of the NOx emissions.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month, facility-wide NOx emission limitation, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum, monthly allowable cumulative facility-wide NOx emission limitation, along with the cause of the exceedances and an explanation of any corrective actions taken to prevent future exceedances.
2. The permittee shall submit annual reports which identify the following information:
 - a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
 - b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
 - c. facility-wide NOx emissions, in tons;
 - d. the cumulative total of the facility-wide NOx emissions during each of the first twelve months of operation following the issuance of this permit; and

- e. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summation of the NOx emissions.

These reports shall be submitted by February 15 of each year and shall include the data for the previous calendar year.

E. Testing Requirements

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

Emission Limitation:

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

Applicable Compliance Method:

Multiply the particulate emission factor of 12.2 pounds of particulate emissions per million cubic feet of natural gas burned by the maximum hourly rate of .011 million cubic feet per hour, and divide by the maximum hourly heat input capacity (10.8 MMBtu/hr). The particulate emission factor was obtained from AP-42, Chapter 1.4, Table 1.4-2, dated October 96.

Emission Limitation:

78.4 TPY nitrogen oxides

Applicable Compliance Method:

The facility NOx emissions for each calendar month shall be calculated in accordance with the following equation:

$$[(0.00014X)+(0.02Y)+(0.00055Z)] / 2000 = \text{NOx}$$

Where:

X = amount of natural gas combusted during the month in all of the emissions units listed in Section B.2 above, except B001, in cubic feet.

Y = amount of #2 fuel oil combusted during the month, in all of the above-mentioned emissions units, in gallons.

Z = amount of natural gas combusted during the month in B001, in cubic feet.

NOx = nitrogen oxides emissions, in tons per year.

The emission factors in the equation above come from AP42, Chapter 1, table 1.4-1, dated 10/96.

During the first 12 calendar months of operation following the issuance of this permit, the calculated NOx emission rate for each month shall be added to the calculated emissions from the prior month(s) to determine the cumulative total for that month.

F. Miscellaneous Requirements

1. Sections A, B, C, D, E, and F of these terms and conditions constitute the federally enforceable portion of this permit.

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

Facility ID: 1677130006 Emissions Unit ID: B007 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

(a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

(a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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Applicable Compliance Method:

The facility NOx emissions for each calendar month shall be calculated in accordance with the following equation:

$$[(0.00014X)+(0.02Y)+(0.00055Z)] / 2000 = \text{NOx}$$

Where:

X = amount of natural gas combusted during the month in all of the emissions units as listed in Section B.2 above, except B001, in cubic feet.

Y = amount of #2 fuel oil combusted during the month, in all of the above-mentioned emissions units, in gallons.

Z = amount of natural gas combusted during the month in B001, in cubic feet.

NOx = nitrogen oxides emissions, in tons per year.

The emission factors in the equation above come from AP42, Chapter 1, table 1.4-1, dated 10/96.

During the first 12 calendar months of operation following the issuance of this permit, the calculated NOx emission rate for each month shall be added to the calculated emissions from the prior month(s) to determine the cumulative total for that month.

F. Miscellaneous Requirements

1. Sections A, B, C, D, E, and F of these terms and conditions constitute the federally enforceable portion of this permit.

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

Facility ID: 1677130006 Emissions Unit ID: B008 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural Gas Fired Space Heater	PTI 16-1528 OAC 3745-17-07 (A) OAC 3745-17-10	0.020 pound of particulate matter emissions per million Btu of actual heat input.

2. **Additional Terms and Conditions**
 - (a) This emissions unit shall burn natural gas only.

B. Operational Restrictions

1. The total NOx emissions from all the fuel burning equipment at this facility shall not exceed 78.4 tons, based upon a rolling, 12-month summation.
2. The permittee has agreed to accept limitations on natural gas and fuel oil consumption to keep the facility NOx emissions below 100 tons per year. The emission limitations and fuel consumption restrictions are for all of the following emissions units at this facility: B001, B002, B003, B004, B005, B006, B007, B008 and all the "de minimis" fuel burning equipment at the facility such as water heaters and small space heaters.
3. To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the emission levels, as specified in the following table.

Month	Maximum allowable cumulative facility-wide NOx emission (tons per year)
0- 1	10.0

- 1- 2 16.3
 - 1- 3 22.9
 - 1- 4 29.4
 - 1- 5 36.0
 - 1- 6 42.4
 - 1- 7 48.9
 - 1- 8 54.5
 - 1- 9 61.0
 - 1-10 66.2
 - 1-11 71.9
 - 1-12 78.4

After the first twelve calendar months of operation following the issuance of this permit, compliance with the annual NOx emission limit of 78.4 tons shall be based upon a rolling, 12-month summation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records which list the following information:
 - a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
 - b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
 - c. facility-wide NOx emissions, in tons;
 - d. the cumulative total of facility-wide NOx emissions during each of the first twelve months of operation following the issuance of this permit; and
 - e. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summation of the NOx emissions.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month, facility-wide NOx emission limitation, and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum, monthly allowable cumulative facility-wide NOx emission limitation, along with the cause of the exceedances and an explanation of any corrective actions taken to prevent future exceedances.
2. The permittee shall submit annual reports which identify the following information:
 - a. total amount of natural gas and/or #2 fuel oil consumed at the facility;
 - b. the amount of natural gas and/or #2 fuel oil consumed by emissions unit B001;
 - c. facility-wide NOx emissions, in tons;
 - d. the cumulative total of the facility-wide NOx emissions during each of the first twelve months of operation following the issuance of this permit; and
 - e. after twelve months of operation following the issuance of this permit, the rolling, twelve-month summation of the NOx emissions.

These reports shall be submitted by February 15 of each year and shall include the data for the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1 and B.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

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

Applicable Compliance Method:

Multiply the particulate emission factor of 12.2 pounds of particulate emissions per million cubic feet of natural gas burned by the maximum hourly rate of .011 million cubic feet per hour, and divide by the maximum hourly heat input capacity (10.0 MMBtu/hr). The particulate emission factor was obtained from AP-42, Chapter 1.4, Table 1.4-2, dated October 96.

Emission Limitation:

78.4 TPY nitrogen oxides

Applicable Compliance Method:

The facility NOx emissions for each calendar month shall be calculated in accordance with the following equation:

$$[(0.00014X)+(0.02Y)+(0.00055Z)] / 2000 = \text{NOx}$$

Where:

X = amount of natural gas combusted during the month in all of the emissions units listed in Section B.2 above, except B001, in cubic feet.

Y = amount of #2 fuel oil combusted during the month, in all of the above-mentioned emissions units, in gallons.

Z = amount of natural gas combusted during the month in B001, in cubic feet.

NOx = nitrogen oxides emissions, in tons per year.

The emission factors in the equation above come from AP42, Chapter 1, table 1.4-1, dated 10/96.

During the first 12 calendar months of operation following the issuance of this permit, the calculated NOx emission rate for each month shall be added to the calculated emissions from the prior month(s) to determine

the cumulative total for that month.

F. Miscellaneous Requirements

1. Sections A, B, C, D, E, and F of these terms and conditions constitute the federally enforceable portion of this permit.

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

Facility ID: 1677130006 Emissions Unit ID: K003 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Spray Booth	PTI # 16-757 OAC 3745-21-09 (U)(1)	The VOC emissions from this emissions unit shall not exceed 10.47 pounds of VOC per hour. This emissions unit shall only employ coatings with no more than 3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents.

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 4000 hours, based upon a rolling, 12-month summation of the operating hours.

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

Month(s) Maximum Allowable Cumulative Operating Hours

- 1 334
- 1-2 668
- 1-3 1002
- 1-4 1336
- 1-5 1669
- 1-6 2002
- 1-7 2335
- 1-8 2668
- 1-9 3001
- 1-10 3334
- 1-11 3667
- 1-12 4000

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

2. The VOC emissions from this emissions unit shall not exceed 20.23 tons per year.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the line:
 - a. The name and identification number of each coating, as employed.
 - b. The VOC content of each coating (excluding water and exempt solvents), as employed, in pounds per gallon.

- c. The number of gallons (excluding water and exempt solvents) of each coating employed.
 - d. The name and identification of each cleanup material employed.
 - e. The VOC content of each cleanup material, in pounds per gallon.
 - f. The number of gallons of each cleanup material employed.
 - g. The total VOC emissions from all coatings and cleanup materials employed, in pounds per day.
 - h. The total number of hours the emissions unit was in operation.
 - i. The average hourly VOC emissions from all coatings and cleanup materials employed, i.e., (g)/(h), in pounds per hour (average).
2. The permittee shall maintain monthly records of the following information:
 - a. during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month; and
 - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours.
- D. Reporting Requirements**
1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
 2. The permittee shall submit deviation (excursion) reports which identify each day during which the average hourly VOC emissions from the coatings and cleanup materials exceeded 10.47 pounds per hour, and the actual average hourly VOC emissions for each such day.
 3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month summation of the operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.
 4. The permittee shall submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
- E. Testing Requirements**
1. Compliance with the emission limitations in Sections A.1 and B.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:

OAC 3745-21-10(B) and OAC 3745-21-04(B)(5). USEPA Methods 24 and 24A shall be used to determine the VOC contents for (a) coatings and (b) flexographic and rotogravure printing inks and related coatings, respectively. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

Emission Limitation:

10.47 pounds per hour VOC and 20.23 tons per year VOC

Applicable Compliance Method:

Daily records shall be maintained of the organic compound content of each coating and cleanup material employed, the daily usage of each coating and cleanup material employed, and the calculated average hourly organic compound emission rate for all coatings and cleanup materials employed. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of each cleanup material.
- F. Miscellaneous Requirements**
1. The following terms and conditions of this permit are federally enforceable pursuant to OAC rule 3745-35-07: A, B, C, D, E, and F.

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

Facility ID: 1677130006 Emissions Unit ID: K004 Issuance type: Draft State Permit To Operate

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Part II - Special Terms and Conditions

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

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

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Spray Booth	OAC 3745-21-09 (U)(1)	The VOC emissions from this emissions unit shall not exceed 10.4 pounds of VOC per hour. This emissions unit shall only employ coatings with no more than 3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents.

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 540 hours, based upon a rolling, 12-month summation of the operating hours.

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

Month(s) Maximum Allowable Cumulative Operating Hours

- 1 45
- 1-2 90
- 1-3 135
- 1-4 180
- 1-5 225
- 1-6 270
- 1-7 315
- 1-8 360
- 1-9 405
- 1-10 450
- 1-11 495
- 1-12 540

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

2. The VOC emissions from this emissions unit shall not exceed 2.84 tons per year.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the line:
 - a. The name and identification number of each coating, as employed.
 - b. The VOC content of each coating (excluding water and exempt solvents), as employed, in pounds per gallon.
 - c. The number of gallons (excluding water and exempt solvents) of each coating employed.
 - d. The name and identification of each cleanup material employed.
 - e. The VOC content of each cleanup material, in pounds per gallon.
 - f. The number of gallons of each cleanup material employed.
 - g. The total VOC emissions from all coatings and cleanup materials employed, in pounds per day.
 - h. The total number of hours the emissions unit was in operation.
 - i. The average hourly VOC emissions from all coatings and cleanup materials employed, i.e., (g)/(h), in pounds per hour (average).
2. The permittee shall maintain monthly records of the following information:
 - a. during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month; and

- b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which identify each day during which the average hourly VOC emissions from the coatings and cleanup materials exceeded 10.4 pounds per hour, and the actual average hourly VOC emissions for each such day.
3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month summation of the operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.
4. The permittee shall submit annual reports which specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1 and B.2 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents

Applicable Compliance Method:

OAC 3745-21-10(B) and OAC 3745-21-04(B)(5). USEPA Methods 24 and 24A shall be used to determine the VOC contents for (a) coatings and (b) flexographic and rotogravure printing inks and related coatings, respectively. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

Emission Limitation:

10.4 pounds per hour VOC and 2.84 tons per year VOC

Applicable Compliance Method:

Daily records shall be maintained of the organic compound content of each coating and cleanup material employed, the daily usage of each coating and cleanup material employed, and the calculated average hourly organic compound emission rate for all coatings and cleanup materials employed. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of each cleanup material.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable pursuant to OAC rule 3745-35-07: A, B, C, D, E, and F.