

Facility ID: 1318452983 Issuance type: Title V Final Permit

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

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

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

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Facility ID: 1318452983 Issuance type: Title V Final Permit

## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

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

Z005 - 10,000-gallon diesel fuel tank #1;  
Z006\* - 10,000-gallon diesel fuel tank #2;  
Z009\* - 750 kW diesel-fired emergency generator #3; and  
Z010\* - ethylene oxide sterilizer (500 lbs/yr).

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. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21.

\*The permittee installed this emissions unit without first applying for and obtaining a permit to install, in violation of ORC Section 3704 and OAC Chapter 3745-31. Therefore, the permittee shall submit a complete PTI application for this emissions unit within two (2) months following the effective date of this permit and obtain a final PTI for this emissions unit within eight (8) months following the effective date of this permit in order to bring this emissions unit into compliance.

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Facility ID: 1318452983 Issuance type: Title V Final Permit

### b State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

Z007 - 600 kW diesel-fired emergency generator #1; and  
Z008 - 200 kW diesel-fired emergency generator #2.

[Go to Part III for Emissions Unit B004](#)

[Go to Part III for Emissions Unit B005](#)

[Go to Part III for Emissions Unit B006](#)

[Go to Part III for Emissions Unit B007](#)

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

Facility ID: 1318452983 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1318452983 Emissions Unit ID: B004 Issuance type: Title V Final 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>   |
|--|--------------------------------------|--|
| 17.5 mmBtu/hr natural gas/No.2 fuel oil-fired boiler (Boiler #1) | OAC rule 3745-17-07(A)               | Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.              |
|  | OAC rule 3745-17-10(B)(1)            | Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.  |
|  | OAC rule 3745-18-06(D)               | When burning No. 2 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input. See A.I.2.a below. |

2. Additional Terms and Conditions

- a. Pursuant to OAC rule 3745-18-06(A), on days when only natural gas is burned, this emissions unit is exempt from the emission limitation specified in OAC rule 3745-18-06(D).

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

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

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1 above.

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

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

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or No. 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 maintain the following records for the oil burned in this emissions unit:
  - a. For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
  - b. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Cleveland Division of Air Quality (CDAQ).

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

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

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**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify CDAQ in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to CDAQ within 45 days after the deviation occurs.

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

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

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**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation -  
Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method -  
When burning natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.0175 mmcu.ft/hr) by the AP-42 emission factor\* for natural gas (1.9 lbs particulate/mmcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (17.5 mmBtu/hr).  
  
When burning No. 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (127 gal/hr) by the AP-42 emission factor\*\* for No. 2 fuel oil (2 lbs particulate/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (17.5 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while burning No. 2 fuel oil.  
  
\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (7-98), Table 1.4-2  
\*\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (9-98), Table 1.3-1
  - b. Emission Limitation -  
When burning No. 2 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.  
  
Applicable Compliance Method -  
Compliance with this emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section A.III above.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.
  - c. Emission Limitation -  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.  
  
Applicable Compliance Method -  
If required, compliance with this emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

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

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

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**VI. Miscellaneous Requirements**

1. None

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**Facility ID: 1318452983 Issuance type: Title V Final Permit**

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

**Facility ID: 1318452983 Emissions Unit ID: B004 Issuance type: Title V Final Permit**

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

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

| <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|---|--------------------------------------|--|
| <b>2. Additional Terms and Conditions</b>     |                                      |  |
| 1. None                                       |                                      |  |

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

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

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**II. Operational Restrictions**

1. None

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

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

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

1. None

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

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

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**IV. Reporting Requirements**

1. None

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

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

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**V. Testing Requirements**

1. None

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

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

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**VI. Miscellaneous Requirements**

1. None

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

Facility ID: 1318452983 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1318452983 Emissions Unit ID: B005 Issuance type: Title V Final 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>   |
|--|--------------------------------------|--|
| 17.5 mmBtu/hr natural gas/No.2 fuel oil-fired boiler (Boiler #2) | OAC rule 3745-17-07(A)               | Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.              |
|  | OAC rule 3745-17-10(B)(1)            | Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.  |
|  | OAC rule 3745-18-06(D)               | When burning No. 2 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input. See A.I.2.a below. |

2. **Additional Terms and Conditions**

- a. Pursuant to OAC rule 3745-18-06(A), on days when only natural gas is burned, this emissions unit is exempt from the emission limitation specified in OAC rule 3745-18-06(D).

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

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

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- II. **Operational Restrictions**

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1 above.

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

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

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

1. For each day during which the permittee burns a fuel other than natural gas and/or No. 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 maintain the following records for the oil burned in this emissions unit:
  - a. For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
  - b. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Cleveland Division of Air Quality (CDAQ).

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

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

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- IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify CDAQ in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to CDAQ within 45 days after the deviation occurs.

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

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

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- V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation -  
Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method -  
When burning natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.0175 mmcu.ft/hr) by the AP-42

emission factor\* for natural gas (1.9 lbs particulate/mmcf) and dividing by the maximum hourly heat input capacity of the emissions unit (17.5 mmBtu/hr).

When burning No. 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (127 gal/hr) by the AP-42 emission factor\*\* for No. 2 fuel oil (2 lbs particulate/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (17.5 mmBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while burning No. 2 fuel oil.

\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (7-98), Table 1.4-2  
 \*\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (9-98), Table 1.3-1

- b. Emission Limitation -  
 When burning No. 2 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.  
  
 Applicable Compliance Method -  
 Compliance with this emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section A.III above.  
  
 If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.
- c. Emission Limitation -  
 Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.  
  
 Applicable Compliance Method -  
 If required, compliance with this emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

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

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

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318452983 Issuance type: Title V Final Permit

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

Facility ID: 1318452983 Emissions Unit ID: B005 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

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

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

| <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|---|--------------------------------------|--|
| 2. <b>Additional Terms and Conditions</b>     |                                      |  |
| 1. None                                       |                                      |  |

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

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

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II. **Operational Restrictions**

- 1. None

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

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

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

- 1. None

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

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

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**IV. Reporting Requirements**

- 1. None

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

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

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**V. Testing Requirements**

- 1. None

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

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

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**VI. Miscellaneous Requirements**

- 1. None

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**Facility ID: 1318452983 Issuance type: Title V Final Permit**

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

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

**Facility ID: 1318452983 Emissions Unit ID: B006 Issuance type: Title V Final 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>   |
|--|--------------------------------------|--|
| 17.5 mmBtu/hr natural gas/No.2 fuel oil-fired boiler (Boiler #3) | OAC rule 3745-17-07(A)               | Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.              |
|  | OAC rule 3745-17-10(B)(1)            | Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.  |
|  | OAC rule 3745-18-06(D)               | When burning No. 2 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input. See A.1.2.a below. |

**2. Additional Terms and Conditions**

- a. Pursuant to OAC rule 3745-18-06(A), on days when only natural gas is burned, this emissions unit is exempt from the emission limitation specified in OAC rule 3745-18-06(D).

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

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

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**II. Operational Restrictions**

- 1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

2. The quality of the oil burned in this emissions unit shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1 above.

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

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

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

1. For each day during which the permittee burns a fuel other than natural gas and/or No. 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 maintain the following records for the oil burned in this emissions unit:
  - a. For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
  - b. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Cleveland Division of Air Quality (CDAQ).

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

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

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

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify CDAQ in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to CDAQ within 45 days after the deviation occurs.

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

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

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

### V. Testing Requirements

1. 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 -  
Particulate emissions shall not exceed 0.020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method -  
When burning natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.0175 mmcu.ft/hr) by the AP-42 emission factor\* for natural gas (1.9 lbs particulate/mmcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (17.5 mmBtu/hr).  
  
When burning No. 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (127 gal/hr) by the AP-42 emission factor\*\* for No. 2 fuel oil (2 lbs particulate/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (17.5 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while burning No. 2 fuel oil.  
  
\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (7-98), Table 1.4-2  
\*\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (9-98), Table 1.3-1
  - b. Emission Limitation -  
When burning No. 2 fuel oil, sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.  
  
Applicable Compliance Method -  
Compliance with this emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section A.III above.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.
  - c. Emission Limitation -

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

Applicable Compliance Method -  
 If required, compliance with this emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

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

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

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318452983 Issuance type: Title V Final Permit

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

Facility ID: 1318452983 Emissions Unit ID: B006 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

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

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

|   | <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|---|---|--------------------------------------|--|
| 2. <b>Additional Terms and Conditions</b> |   |                                      |  |
| 1.  | None  |                                      |  |

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

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

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II. **Operational Restrictions**

- 1. None

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

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

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

- 1. None

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

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

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IV. **Reporting Requirements**

- 1. None

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

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

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V. **Testing Requirements**

- 1. None

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

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

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318452983 Issuance type: Title V Final Permit

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

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

Facility ID: 1318452983 Emissions Unit ID: B007 Issuance type: Title V Final 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>   |
|---|---|--|
| 31.88 mmBtu/hr natural gas/No.2 fuel oil-fired boiler (Boiler #4) | OAC rule 3745-17-07(A)                  | Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.                                    |
|   | OAC rule 3745-17-10(B)(1)               | Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu of actual heat input.   |
|   | OAC rule 3745-18-06(D)                  | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to rule OAC 3745-31-05(A)(3). |
|   | OAC rule 3745-31-05(A)(3) (PTI#13-3892) | Nitrogen oxides (NOx) emissions shall not exceed 4.54 lbs/hr and 19.89 TPY.  |
|   |   | Carbon monoxide (CO) emissions shall not exceed 2.68 lbs/hr and 11.74 TPY.   |
|   |   | Organic compound (OC) emissions shall not exceed 0.35 lb/hr and 1.53 TPY.  |
|   |   | Sulfur dioxide (SO2) emissions shall not exceed 8.05 lbs/hr and 35.26 TPY.   |
|   |   | PE shall not exceed 2.79 TPY.  |
|   |   | Compliance with this rule also includes compliance with OAC rules 3745-17-07(A) and 3745-17-10(B)(1).<br>See A.I.2.a below.                      |
|   | OAC rule 3745-21-08(B)                  | See A.I.2.a below.   |
|   | OAC rule 3745-23-06(B)                  | See A.I.2.b below.   |

**2. Additional Terms and Conditions**

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3892.
- (a) On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- b. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-3892.

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

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

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable SO<sub>2</sub> emission limitation specified in Section A.I.1 above.

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

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

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

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

1. For each day during which the permittee burns a fuel other than natural gas and/or No. 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 maintain the following records for the oil burned in this emissions unit:
  - a. For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and 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 SO<sub>2</sub> emission rate (in lbs/mmBtu). (The SO<sub>2</sub> emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
  - b. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Cleveland Division of Air Quality (CDAQ).
  - c. The permittee shall also maintain records of the hourly SO<sub>2</sub> emission rate using the calculated lbs of SO<sub>2</sub>/mmBtu emission rate (from Section A.III.2.a above) and either the maximum hourly heat input capacity of the emissions unit (31.88 mmBtu/hr) calculated as follows: (lbs of SO<sub>2</sub>/mmBtu) x (31.88 mmBtu/hr) = lbs of SO<sub>2</sub>/hr or the actual average hourly heat input capacity of the emissions unit calculated as follows: (lbs of SO<sub>2</sub>/mmBtu) x (actual average hourly heat input, in mmBtu/hr) = lbs of SO<sub>2</sub>/hr.

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

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

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

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify CDAQ in writing of any record which shows a deviation of the allowable SO<sub>2</sub> emission limitation based upon the calculated SO<sub>2</sub> emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to CDAQ within 45 days after the deviation occurs.

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

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

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### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation -  
PE shall not exceed 0.020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method -  
When burning natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.03188 mmcu.ft/hr) by the AP-42 emission factor\*\* for natural gas (1.9 lbs/mmcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (31.88 mmBtu/hr).  
  
When burning No. 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (227 gals/hr) by the AP-42 emission factor\*\*\* for No. 2 fuel oil (2 lb/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (31.88 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while burning No. 2 fuel oil.
  - b. Emission Limitation -  
SO<sub>2</sub> emissions shall not exceed 8.05 lbs/hr.  
  
Applicable Compliance Method -  
When burning No. 2 fuel oil, compliance with this emission limitation may be demonstrated based on the record keeping in Section A.III.2.c.  
  
When burning natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.03188 mmcu.ft/hr) by the AP-42 emission factor\*\* for natural gas (0.6 lb/mmcu.ft).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, while burning No. 2 fuel oil.

- c. Emission Limitation -  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method -  
If required, compliance with this emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- d. Emission Limitation -  
NOx emissions shall not exceed 4.54 lbs/hr.

Applicable Compliance Method -  
When burning natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.03188 mmcu.ft/hr) by the AP-42 emission factor\* for natural gas (100 lbs/mmcu.ft).

When burning No. 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (227 gals/hr) by the AP-42 emission factor\*\*\* for No. 2 fuel oil (20 lbs/1000 gal).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, while burning No. 2 fuel oil.

- e. Emission Limitation -  
CO emissions shall not exceed 2.68 lbs/hr.

Applicable Compliance Method -  
When burning natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.03188 mmcu.ft/hr) by the AP-42 emission factor\* for natural gas (84 lbs/mmcu.ft).

When burning No. 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (227 gals/hr) by the AP-42 emission factor\*\*\* for No. 2 fuel oil (5 lbs/1000 gal).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10, while burning No. 2 fuel oil.

- f. Emission Limitation -  
OC emissions shall not exceed 0.35 lb/hr.

Applicable Compliance Method -  
When burning natural gas, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly gas burning capacity of the emissions unit (0.03188 mmcu.ft/hr) by the AP-42 emission factor\*\* for natural gas (11 lbs/mmcu.ft).

When burning No. 2 fuel oil, compliance with this emission limitation may be demonstrated by multiplying the maximum hourly fuel oil burning capacity of the emissions unit (227 gals/hr) by the AP-42 emission factor\*\*\*\* for No. 2 fuel oil (0.556 lb/1000 gal).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25, while burning No. 2 fuel oil.

\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (7-98), Table 1.4-1  
 \*\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (7-98), Table 1.4-2  
 \*\*\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (9-98), Table 1.3-1  
 \*\*\*\*AP-42 "Compilation of Air Pollutant Emission Factors," Fifth Edition, Supplement D (9-98), Table 1.3-3

- g. Emission Limitations -  
SO2 emissions shall not exceed 35.26 TPY.  
NOx emissions shall not exceed 19.89 TPY.  
CO emissions shall not exceed 11.74 TPY.  
OC emissions shall not exceed 1.53 TPY.

Applicable Compliance Method -  
The annual emission limitations were established by multiplying the hourly emission limitations by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, compliance with each annual emission limitation shall be assumed provided compliance is maintained with the hourly emission limitations.

- h. Emission Limitation -

PE shall not exceed 2.79 TPY.

Applicable Compliance Method -

This emission limitation was established by multiplying the particulate lb/mmBtu emission limitation by the emissions unit's maximum rated heat input capacity (31.88 mmBtu/hr) by the maximum possible annual operating hours (8760 hrs/yr) and dividing by 2000 lbs/ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the lb/mmBtu emission limitation.

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

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

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VI. **Miscellaneous Requirements**

1. This emissions unit was installed in 1982 and, therefore, is not subject to the NSPS requirements specified in 40 CFR part 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

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Facility ID: 1318452983 Issuance type: Title V Final Permit

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

Facility ID: 1318452983 Emissions Unit ID: B007 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

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

| <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|---|--------------------------------------|--|
| 2. <b>Additional Terms and Conditions</b>     |                                      |  |
| 1. None                                       |                                      |  |

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

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

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II. **Operational Restrictions**

1. None

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

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

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

1. None

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

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

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IV. **Reporting Requirements**

1. None

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

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

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V. **Testing Requirements**

1. None

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

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

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VI. **Miscellaneous Requirements**

1. None