

Facility ID: 0125040421 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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## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

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

B001 - 3.35 mmBtu/hr digester gas and fuel oil-fired heating boiler;  
B002 - 3.35 mmBtu/hr digester gas and fuel oil-fired heating boiler;  
B003 - 3.35 mmBtu/hr digester gas and fuel oil-fired heating boiler;  
B008 - 1.25 mmBtu/hr fuel oil-fired heating boiler (Berliner  
Park Grit Facility);  
B021 - emergency generator (Jackson Pike);  
B022 - emergency generator (Whittier street);  
B023 - 2.09 mmBtu/hr fuel oil-fired heating boiler; and  
G001 - gasoline dispensing facility (PTI 01-2973).

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified 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.

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### b State Only Enforceable Section

1. None

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- [Go to Part III for Emissions Unit B017](#)
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- [Go to Part III for Emissions Unit B019](#)
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**Part III - Terms and Conditions for Emissions Units**

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Facility ID: 0125040421 Emissions Unit ID: B014 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>
13.35 MMBtu/hr digester gas flare	OAC rule 3745-17-11	None, see A.I.2.a below.
	OAC rule 3745-18-06	None, see A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 01-2546)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-21-08(B)	None, see A.I.2.c below.
	OAC rule 3745-23-06(B)	None, see A.I.2.d below.

**2. Additional Terms and Conditions**

- a. The requirements of OAC rule 3745-17-11 do not apply to this emissions unit pursuant to OAC rules 3745-17-11(A)(2)(a)(ii) and 3745-17-11(A)(2)(b)(i).
- b. The requirements of OAC rule 3745-18-06 do not apply to this emissions unit pursuant to OAC rule 3745-18-06(C).
- c. 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 01-2546.  
  
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.
- d. 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 01-2546.

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**II. Operational Restrictions**

1. The permittee shall burn only digester gas in this emissions unit, and natural gas for the pilot light.

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

1. For each day during which the permittee burns a fuel other than digester gas or natural gas for the pilot light, the permittee shall maintain a record of the type and quantity of fuel burned in 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 digester gas or natural gas for the pilot light was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:
2. Emission Limitation -  
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.  
  
Applicable Compliance Method -  
If required, compliance shall be determined through visible emissions 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).

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0125040421 Emissions Unit ID: B014 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.

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

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**II. Operational Restrictions**

- 1. None

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

- 1. None

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**IV. Reporting Requirements**

- 1. None

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**V. Testing Requirements**

- 1. None

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**VI. Miscellaneous Requirements**

- 1. None

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

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**Facility ID: 0125040421 Emissions Unit ID: B015 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>
13.35 MMBtu/hr digester gas flare	OAC rule 3745-17-11	None, see A.I.2.a below.
	OAC rule 3745-18-06	None, see A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 01-2546)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-21-08(B)	None, see A.I.2.c below.
	OAC rule 3745-23-06(B)	None, see A.I.2.d below.

**2. Additional Terms and Conditions**

- a. The requirements of OAC rule 3745-17-11 do not apply to this emissions unit pursuant to OAC rules 3745-17-11(A)(2)(a)(ii) and 3745-17-11(A)(2)(b)(i).
- b. The requirements of OAC rule 3745-18-06 do not apply to this emissions unit pursuant to OAC rule 3745-18-06(C).
- c. 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 01-2546.

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.

- d. 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 01-2546.

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**II. Operational Restrictions**

1. The permittee shall burn only digester gas in this emissions unit, and natural gas for the pilot light.

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

1. For each day during which the permittee burns a fuel other than digester gas or natural gas for the pilot light, the permittee shall maintain a record of the type and quantity of fuel burned in 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 digester gas or natural gas for the pilot light was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:
2. Emission Limitation -  
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.
- Applicable Compliance Method -  
If required, compliance shall be determined through visible emissions 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).

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**VI. Miscellaneous Requirements**

1. None

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**Facility ID: 0125040421 Emissions Unit ID: B015 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>
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2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0125040421 Emissions Unit ID: B016 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>
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13.35 MMBtu/hr digester gas flare	OAC rule 3745-17-11	None, see A.I.2.a below.
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OAC rule 3745-18-06	None, see A.I.2.b below.
OAC rule 3745-31-05(A)(3) (PTI 01-2546)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-21-08(B), and 3745-23-06(B).
OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
OAC rule 3745-21-08(B)	None, see A.I.2.c below.
OAC rule 3745-23-06(B)	None, see A.I.2.d below.

2. **Additional Terms and Conditions**

- a. The requirements of OAC rule 3745-17-11 do not apply to this emissions unit pursuant to OAC rules 3745-17-11(A)(2)(a)(ii) and 3745-17-11(A)(2)(b)(i).
- b. The requirements of OAC rule 3745-18-06 do not apply to this emissions unit pursuant to OAC rule 3745-18-06(C).
- c. 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 01-2546.  
  
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.
- d. 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 01-2546.

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II. **Operational Restrictions**

- 1. The permittee shall burn only digester gas in this emissions unit, and natural gas for the pilot light.

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

- 1. For each day during which the permittee burns a fuel other than digester gas or natural gas for the pilot light, the permittee shall maintain a record of the type and quantity of fuel burned in 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 digester gas or natural gas for the pilot light was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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V. **Testing Requirements**

- 1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:
- 2. Emission Limitation - Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.  
  
Applicable Compliance Method - If required, compliance shall be determined through visible emissions 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).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0125040421 Emissions Unit ID: B016 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		

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#### II. Operational Restrictions

1. None

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

1. None

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#### IV. Reporting Requirements

1. None

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#### V. Testing Requirements

1. None

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#### VI. Miscellaneous Requirements

1. None

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

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Facility ID: 0125040421 Emissions Unit ID: B017 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>
8.37 MMBtu/hr natural gas, digester gas and number two fuel oil-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 01-2546)	See A.I.2.a and A.II.2 below.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B). Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .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 OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-18-06	exempt pursuant to OAC rule 3745-18-06(B) when burning only natural gas
	OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	None, see A.I.2.b below. None, see A.I.2.c below.

**2. Additional Terms and Conditions**

- a. The quality of the oil burned in this emissions unit shall meet a sulfur content and heat content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 pound of SO<sub>2</sub>/MMBtu actual heat input.
- b. 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 01-2546.  
  
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.
- c. 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 01-2546.

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas, and/or number two fuel oil in this emissions unit.
2. No more than a total of 250,000 gallons of number two fuel oil shall be burned in any rolling, 12-month period in boilers B017, B018, and B019 combined.

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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, digester gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. 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 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).)
3. 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 ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Director (the appropriate Ohio EPA District Office or local air agency).

4. The permittee shall collect and record the following information on a monthly basis:
  - a. the total number of gallons of number two fuel oil burned in boilers B017, B018 and B019 combined; and
  - b. the rolling 12-month summation of the amount of number two fuel oil burned in boilers B017, B018 and B019, combined, in gallons.

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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, digester gas, and/or number two 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 the Director (the appropriate Ohio EPA District Office or local air agency) in writing of each record that shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from A.III above. 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 45 days after the deviation occurs.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each exceedance of the rolling 12-month limitation of number two fuel oil burned in boilers B017, B018 and B019, combined. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.

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#### V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:
2. Emission Limitation -  
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.  
  
Applicable Compliance Method -  
If required, compliance shall be determined through visible emissions 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).
3. Emission Limitation -  
Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method -  
When firing natural gas, compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft) by the conversion factor (1020 MMBtu/MMcu.ft).  
  
When firing digester gas, compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft), which is assumed to be the same emission factor for digester gas combustion by the conversion factor (660 MMBtu/MMcu.ft) from Air Toxics, Inc., Digester Gas Analysis report (06/23/92).  
  
When firing number two fuel oil, compliance may be demonstrated by dividing the AP-42, Table 1.3-1 (7/98) emission factor for fuel oil combustion (2.0 lbs of particulates/1000 gal) by the conversion factor (140 MMBtu/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, Method 5 while firing number two fuel oil. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
4. Emission Limitation -  
0.50 pound of SO<sub>2</sub>/MMBtu actual heat input  
  
Applicable Compliance Method -  
Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 6. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

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#### VI. Miscellaneous Requirements

1. This emissions unit does not qualify for the exemption listed under OAC rule 3745-31-03(A)(1)(a). A letter dated January 9, 1998, from the Director of the Ohio EPA to the City of Columbus, Department of Utilities stated that boilers 5, 6, and 7 (emissions units B017, B018, and B019 respectively) must be considered as non-insignificant emissions units due to the fact that digester gas is not listed as an exempt fuel.

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Facility ID: 0125040421 Emissions Unit ID: B017 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		

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**II. Operational Restrictions**

1. None

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

1. None

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**IV. Reporting Requirements**

1. None

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**V. Testing Requirements**

1. None

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0125040421 Emissions Unit ID: B018 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>
8.37 MMBtu/hr natural gas, digester gas and number two fuel oil-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 01-2546)	See A.I.2.a and A.II.2 below.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B). Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .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 OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-18-06	exempt pursuant to OAC rule 3745-18-06(B) when burning only natural gas
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

**2. Additional Terms and Conditions**

- a. The quality of the oil burned in this emissions unit shall meet a sulfur content and heat content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 pound of SO<sub>2</sub>/MMBtu actual heat input.
- b. 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 01-2546.  
  
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.
- c. 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 01-2546.

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas, and/or number two fuel oil in this emissions unit.
2. No more than a total of 250,000 gallons of number two fuel oil shall be burned in any rolling, 12-month period in boilers B017, B018, and B019 combined.

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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, digester gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. 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 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).)

3. 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 ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Director (the appropriate Ohio EPA District Office or local air agency).
4. The permittee shall collect and record the following information on a monthly basis:
  - a. the total number of gallons of number two fuel oil burned in boilers B017, B018 and B019 combined; and
  - b. the rolling 12-month summation of the amount of number two fuel oil burned in boilers B017, B018 and B019, combined, in gallons.

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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, digester gas, and/or number two 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 the Director (the appropriate Ohio EPA District Office or local air agency) in writing of each record that shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from A.III above. 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 45 days after the deviation occurs.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each exceedance of the rolling 12-month limitation of number two fuel oil burned in boilers B017, B018 and B019, combined. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.

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#### V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:
2. Emission Limitation -  
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.  
  
Applicable Compliance Method -  
If required, compliance shall be determined through visible emissions 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).
3. Emission Limitation -  
Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method -  
When firing natural gas, compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft) by the conversion factor (1020 MMBtu/MMcu.ft).  
  
When firing digester gas, compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft), which is assumed to be the same emission factor for digester gas combustion by the conversion factor (660 MMBtu/MMcu.ft) from Air Toxics, Inc., Digester Gas Analysis report (06/23/92).  
  
When firing number two fuel oil, compliance may be demonstrated by dividing the AP-42, Table 1.3-1 (7/98) emission factor for fuel oil combustion (2.0 lbs of particulates/1000 gal) by the conversion factor (140 MMBtu/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, Method 5 while firing number two fuel oil. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
4. Emission Limitation -  
0.50 pound of SO<sub>2</sub>/MMBtu actual heat input  
  
Applicable Compliance Method -  
Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 6. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

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VI. **Miscellaneous Requirements**

1. This emissions unit does not qualify for the exemption listed under OAC rule 3745-31-03(A)(1)(a). A letter dated January 9, 1998, from the Director of the Ohio EPA to the City of Columbus, Department of Utilities stated that boilers 5, 6, and 7 (emissions units B017, B018, and B019 respectively) must be considered as non-insignificant emissions units due to the fact that digester gas is not listed as an exempt fuel.

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Facility ID: 0125040421 Emissions Unit ID: B018 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		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0125040421 Emissions Unit ID: B019 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>
8.37 MMBtu/hr natural gas, digester gas and number two fuel oil-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 01-2546)	See A.I.2.a and A.II.2 below.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B). Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .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 OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-18-06	exempt pursuant to OAC rule 3745-18-06(B) when burning only natural gas
	OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	None, see A.I.2.b below. None, see A.I.2.c below.

2. Additional Terms and Conditions

- a. The quality of the oil burned in this emissions unit shall meet a sulfur content and heat content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 pound of SO<sub>2</sub>/MMBtu actual heat input.
- b. 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 01-2546.  
  
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.
- c. 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 01-2546.

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II. Operational Restrictions

1. The permittee shall burn only natural gas, digester gas, and/or number two fuel oil in this emissions unit.
2. No more than a total of 250,000 gallons of number two fuel oil shall be burned in any rolling, 12-month period in boilers B017, B018, and B019 combined.

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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, digester gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. 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 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).)
3. 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 ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Director (the appropriate Ohio EPA District Office or local air agency).
4. The permittee shall collect and record the following information on a monthly basis:
  - a. the total number of gallons of number two fuel oil burned in boilers B017, B018 and B019 combined; and
  - b. the rolling 12-month summation of the amount of number two fuel oil burned in boilers B017, B018 and B019, combined, in gallons.

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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, digester gas, and/or number two 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 the Director (the appropriate Ohio EPA District Office or local air agency) in writing of each record that shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from A.III above. 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 45 days after the deviation occurs.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each exceedance of the rolling 12-month limitation of number two fuel oil burned in boilers B017, B018 and B019, combined. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.

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### V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:
2. Emission Limitation -  
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.  
  
Applicable Compliance Method -  
If required, compliance shall be determined through visible emissions 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).
3. Emission Limitation -  
Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method -  
When firing natural gas, compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft) by the conversion factor (1020 MMBtu/MMcu.ft).  
  
When firing digester gas, compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft), which is assumed to be the same emission factor for digester gas combustion by the conversion factor (660 MMBtu/MMcu.ft) from Air Toxics, Inc., Digester Gas Analysis report (06/23/92).  
  
When firing number two fuel oil, compliance may be demonstrated by dividing the AP-42, Table 1.3-1 (7/98) emission factor for fuel oil combustion (2.0 lbs of particulates/1000 gal) by the conversion factor (140 MMBtu/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, Method 5 while firing number two fuel oil. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
4. Emission Limitation -  
0.50 pound of SO<sub>2</sub>/MMBtu actual heat input  
  
Applicable Compliance Method -

Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 6. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

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VI. **Miscellaneous Requirements**

1. This emissions unit does not qualify for the exemption listed under OAC rule 3745-31-03(A)(1)(a). A letter dated January 9, 1998, from the Director of the Ohio EPA to the City of Columbus, Department of Utilities stated that boilers 5, 6, and 7 (emissions units B017, B018, and B019 respectively) must be considered as non-insignificant emissions units due to the fact that digester gas is not listed as an exempt fuel.

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Facility ID: 0125040421 Emissions Unit ID: B019 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		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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

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Facility ID: 0125040421 Emissions Unit ID: B020 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>
4.20 MMBtu/hr natural gas, digester gas and number two fuel oil-fired boiler	OAC rule 3745-31-05(A)(3) (PTI 01-3513)	See A.I.2.a below.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-18-06(D), 3745-21-08(B), and 3745-23-06(B). Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .020 lb/MMBtu of actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 1.6 lbs/mmBtu of actual heat input.
	OAC rule 3745-18-06	exempt pursuant to OAC rule 3745-18-06(B) when burning only natural gas
	OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	None, see A.I.2.b below. None, see A.I.2.c below.

**2. Additional Terms and Conditions**

- a. The oil burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur content limitation of 0.5 percent, by weight, in fuel oil.
- b. 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 01-3513  
  
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.
- c. 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 01-3513.

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas, and/or number two fuel oil in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, digester gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. 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 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).)
3. 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 ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Director (the appropriate Ohio EPA District Office or local air agency).

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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, digester gas, and/or number two 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 the Director (the appropriate Ohio EPA District Office or local air agency) in writing of each record that shows a deviation of the allowable sulfur content and/or sulfur dioxide emission limitation based upon the calculated sulfur content and sulfur dioxide emission rates from A.III above. 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 45 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:
2. Emission Limitation -  
Visible particulate emissions from any stack shall not exceed twenty percent opacity as a six-minute average, except as provided by rule.  
  
Applicable Compliance Method -  
If required, compliance shall be determined through visible emissions 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).
3. Emission Limitation -  
Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method -  
When firing natural gas, compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft) by the conversion factor (1020 MMBtu/MMcu.ft).  
  
When firing digester gas, compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft), which is assumed to be the same emission factor for digester gas combustion by the conversion factor (660 MMBtu/MMcu.ft) from Air Toxics, Inc., Digester Gas Analysis report (06/23/92).  
  
When firing number two fuel oil, compliance may be demonstrated by dividing the AP-42, Table 1.3-1 (7/98) emission factor for fuel oil combustion (2.0 lbs of particulates/1000 gal) by the conversion factor (140 MMBtu/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, Method 5 while firing number two fuel oil. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
4. Emission Limitations -  
1.6 pounds of SO<sub>2</sub>/MMBtu of actual heat input  
0.5 percent sulfur, by weight, in the fuel oil  
  
Applicable Compliance Method -  
Compliance shall be demonstrated by documenting that the sulfur content and the calculated sulfur dioxide emission rate of each shipment of oil received during a calendar month meets the limitation.  
  
If required, the permittee shall demonstrate compliance with the pounds of SO<sub>2</sub>/MMBtu of actual heat input limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 6. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

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VI. **Miscellaneous Requirements**

1. This emissions unit does not qualify for the exemption listed under OAC rule 3745-31-03(A)(1)(a). A letter dated January 9, 1998, from the Director of the Ohio EPA to the City of Columbus, Department of Utilities stated that boilers 5, 6, and 7 (emissions units B017, B018, and B019 respectively) must be listed as non-insignificant emissions units due to the fact that digester gas is not listed as an exempt fuel. Since digester gas is also burned in this emissions unit, it must also be considered a non-insignificant emissions unit.

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Facility ID: 0125040421 Emissions Unit ID: B020 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		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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**Facility ID: 0125040421 Emissions Unit ID: N003 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>
8.3 wet sludge tons per hour, multiple hearth sludge incinerator number 1, equipped with a VenturiPak wet scrubber	OAC rule 3745-17-07(A)	3200 grams of mercury (Hg)/24-hour period
	OAC rule 3745-17-09(B)	Visible particulate emissions shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-09(C)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-05(A)(3) (PTI 01-204)	This emissions unit shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.
		No person shall cause, suffer or allow to be emitted into the ambient air from this emissions unit, particulate emissions in the exhaust gases in excess of 1.12 pounds of particulate matter per ton of dry sludge.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 61, Subpart E, and OAC rules 3745-17-07(A), 3745-17-09(C), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-21-08(B)	None, see A.I.2.a below.
	OAC rule 3745-23-06(B)	None, 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 01-204.
- (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 01-204.
- c. There are no applicable SO2 emission limitations under OAC Chapter 3745-18 for this emissions unit.
- d. This emissions unit is not subject to the beryllium NESHAP (40 CFR Part 61, Subpart C) because the sewage sludge processed in this emissions unit does not contain any "beryllium containing waste". As defined in 40 CFR 61.31(g), "beryllium containing waste" means material contaminated with beryllium and/or beryllium compounds used or generated during any process or operation performed by a source subject to this subpart (40 CFR Part 61, Subpart C). See A.IV.2.

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**II. Operational Restrictions**

1. The permittee shall maintain the average water flow rate to the tray sections of the scrubber, during normal operation of this emissions unit, at a level that is not less than 70% of the average water flow rate documented during the most recent stack test that demonstrated compliance with the particulate emission limitation.
2. The permittee shall maintain the gas velocity through the venturi cone section of the scrubber at a value greater than 200 feet/sec, during normal operation of this emissions unit.
3. For purposes of sections A.II.1 and A.II.2, normal operation is defined as any period of time that sludge is in the incinerator except: a period of one hour after sludge has been introduced upon start-up, and a period of three hours after sludge feed has been discontinued upon shutdown. Also, normal operation does not include periods of warm-up, cool-down or warm standby when the incinerator is burning only auxiliary fuel.
4. The operation of the scrubber below the levels specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, Central District Office, compliance with the mass emission limitation and visible emission limitations shall be determined by performing concurrent mass emission tests and visible emissions readings (using USEPA-approved methods and procedures) and, at the same time, taking readings of the water flow rate and gas velocity for the scrubber. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the scrubber below the levels specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitations.

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

1. The permittee shall properly operate and maintain equipment to continuously monitor the water flow rate to the tray sections of the scrubber and the gas velocity through the venturi cone section of the scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
2. The permittee shall collect and record the following information for each day during which the emissions unit is in operation:
  - a. the water flow rate to the tray sections of the scrubber, in gallons per minute, once during each hour of normal operation;
  - b. the average hourly water flow rate to the tray sections of the scrubber, in gallons per minute; and
  - c. the gas velocity through the venturi cone section of the scrubber, in feet/sec, once during each hour of normal operation.
3. The permittee shall maintain, calibrate and operate a flow measuring device to continuously determine the mass (lbs) of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range. The permittee shall determine and record the daily total amount (tons) of wet sludge fed to this emissions unit.
4. The permittee shall provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained. Each day, the permittee shall collect a representative grab sample of the sludge to be incinerated. The sludge sample shall be analyzed using the appropriate ASTM methods to determine the dry solids content and the volatile solids content. The permittee shall maintain records of the results of the sludge analysis.

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. each day during which the average hourly water flow rate to the tray sections of the scrubber, was not maintained at or above the required level; and
  - b. each hour of normal operation during which the gas velocity through the venturi cone section of the scrubber dropped below the required level.The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.
2. Except as provided below, the permittee shall submit an annual statement as part of its annual compliance certification report that indicates that sewage sludge processed in this emissions unit does not contain any "beryllium containing waste," as that term is defined in the Beryllium NESHAP, in 40 CFR Part 61, Subpart C. As the basis for this statement, the permittee shall annually review all of its permitted industrial dischargers to determine if any of the industrial dischargers discharge beryllium containing waste to the Columbus sanitary sewers.

If the permittee determines that it will not submit an annual statement that its sewage sludge does not contain beryllium containing waste, the permittee shall so notify the Director (the appropriate Ohio EPA District Office or local air agency) and, thereafter, the permittee shall be subject to and shall comply with the requirements of 40 CFR Part 61, Subpart C, including the emission limitation of 10 grams of beryllium in a twenty-four hour period. In addition, whenever particulate emission testing is performed for either incinerator, the permittee also shall demonstrate compliance with the emission limitation for beryllium by

performing emission testing in accordance with Method 103 or 104 of 40 CFR Part 60, Appendix B.

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V. **Testing Requirements**

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:
2. Emission Limitation -  
Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.  
  
Applicable Compliance Method -  
If required, compliance shall be determined through visible emissions 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).
3. Emission Limitation -  
3,200 grams of mercury per 24-hour period  
  
Applicable Compliance Method -  
The permittee shall conduct, or have conducted, sludge analyses in accordance with the following requirements:
  - a. The sludge analysis shall be conducted annually.
  - b. The sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24-hour period.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate: 40 CFR, section 61.54. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.  
  
A comprehensive written report on the results of each annual sludge analysis shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.
4. The permittee shall conduct, or have conducted, emission testing for emissions unit N003 or N004 in accordance with the following requirements:
  - a. The emission testing shall be conducted, approximately 2.5 years after permit issuance. The emission testing shall be conducted for emissions units N003 and N004 on a rotating basis such that a different emissions unit is tested during each subsequent emission test.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
  - c. The following test method(s) shall be employed: for particulates, Methods 1-5 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
  - e. The sludge feed rate during the test(s) shall be recorded.  
Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).  
  
Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.  
  
A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0125040421 Emissions Unit ID: N003 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		

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**II. Operational Restrictions**

- 1. None

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

- 1. None

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**IV. Reporting Requirements**

- 1. None

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**V. Testing Requirements**

- 1. None

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**VI. Miscellaneous Requirements**

- 1. None

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

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Facility ID: 0125040421 Emissions Unit ID: N004 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>
8.3 wet sludge tons per hour, multiple hearth sludge incinerator number 2, equipped with a VenturiPak wet scrubber	40 CFR Part 61, Subpart E, National Emission Standards for Hazardous Air Pollutants (NESHAP)	3200 grams of mercury (Hg)/24-hour period
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-09(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-09(C)	This emissions unit shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.
	OAC rule 3745-31-05(A)(3) (PTI 01-204)	No person shall cause, suffer or allow to be emitted into the ambient air from this emissions unit, particulate emissions in the exhaust gases in excess of 1.12 pounds of particulate matter per ton of dry sludge.
	OAC rule 3745-21-08(B)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 61, Subpart E, and OAC rules 3745-17-07(A), 3745-17-09(C), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-23-06(B)	None, see A.I.2.a below.
	OAC rule 3745-23-06(B)	None, 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 01-204.
- (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 01-204.
- c. There are no applicable SO2 emission limitations under OAC Chapter 3745-18 for this emissions unit.
- d. This emissions unit is not subject to the beryllium NESHAP (40 CFR Part 61, Subpart C) because the sewage sludge processed in this emissions unit does not contain any "beryllium containing waste". As defined in 40 CFR 61.31(g), "beryllium containing waste" means material contaminated with beryllium and/or beryllium compounds used or generated during any process or operation performed by a source subject to this subpart (40 CFR Part 61, Subpart C). See A.IV.2.

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**II. Operational Restrictions**

1. The permittee shall maintain the average water flow rate to the tray sections of the scrubber, during normal operation of this emissions unit, at a level that is not less than 70% of the average water flow rate documented during the most recent stack test that demonstrated compliance with the particulate emission limitation.
2. The permittee shall maintain the gas velocity through the venturi cone section of the scrubber at a value greater than 200 feet/sec, during normal operation of this emissions unit.

3. For purposes of sections A.II.1 and A.II.2, normal operation is defined as any period of time that sludge is in the incinerator except: a period of one hour after sludge has been introduced upon start-up, and a period of three hours after sludge feed has been discontinued upon shutdown. Also, normal operation does not include periods of warm-up, cool-down or warm standby when the incinerator is burning only auxiliary fuel.
4. The operation of the scrubber below the levels specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA, Central District Office, compliance with the mass emission limitation and visible emission limitations shall be determined by performing concurrent mass emission tests and visible emissions readings (using USEPA-approved methods and procedures) and, at the same time, taking readings of the water flow rate and gas velocity for the scrubber. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the scrubber below the levels specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitations.

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

1. The permittee shall properly operate and maintain equipment to continuously monitor the water flow rate to the tray sections of the scrubber and the gas velocity through the venturi cone section of the scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
2. The permittee shall collect and record the following information for each day during which the emissions unit is in operation:
  - a. the water flow rate to the tray sections of the scrubber, in gallons per minute, once during each hour of normal operation;
  - b. the average hourly water flow rate to the tray sections of the scrubber, in gallons per minute; and
  - c. the gas velocity through the venturi cone section of the scrubber, in feet/sec, once during each hour of normal operation.
3. The permittee shall maintain, calibrate and operate a flow measuring device to continuously determine the mass (lbs) of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range. The permittee shall determine and record the daily total amount (tons) of wet sludge fed to this emissions unit.
4. The permittee shall provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained. Each day, the permittee shall collect a representative grab sample of the sludge to be incinerated. The sludge sample shall be analyzed using the appropriate ASTM methods to determine the dry solids content and the volatile solids content. The permittee shall maintain records of the results of the sludge analysis.

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### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. each day during which the average hourly water flow rate to the tray sections of the scrubber, was not maintained at or above the required level; and
  - b. each hour of normal operation during which the gas velocity through the venturi cone section of the scrubber dropped below the required level.  
The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.
2. Except as provided below, the permittee shall submit an annual statement as part of its annual compliance certification report that indicates that sewage sludge processed in this emissions unit does not contain any "beryllium containing waste," as that term is defined in the Beryllium NESHAP, in 40 CFR Part 61, Subpart C. As the basis for this statement, the permittee shall annually review all of its permitted industrial dischargers to determine if any of the industrial dischargers discharge beryllium containing waste to the Columbus sanitary sewers.  
  
If the permittee determines that it will not submit an annual statement that its sewage sludge does not contain beryllium containing waste, the permittee shall so notify the Director (the appropriate Ohio EPA District Office or local air agency) and, thereafter, the permittee shall be subject to and shall comply with the requirements of 40 CFR Part 61, Subpart C, including the emission limitation of 10 grams of beryllium in a twenty-four hour period. In addition, whenever particulate emission testing is performed for either incinerator, the permittee also shall demonstrate compliance with the emission limitation for beryllium by performing emission testing in accordance with Method 103 or 104 of 40 CFR Part 60, Appendix B.

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### V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:

2. Emission Limitation -  
Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
- Applicable Compliance Method -  
If required, compliance shall be determined through visible emissions 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).
3. Emission Limitation -  
3,200 grams of mercury per 24-hour period
- Applicable Compliance Method -  
The permittee shall conduct, or have conducted, sludge analyses in accordance with the following requirements:
- The sludge analysis shall be conducted annually.
  - The sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24-hour period.
  - The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate: 40 CFR, section 61.54. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
- A comprehensive written report on the results of each annual sludge analysis shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.
4. The permittee shall conduct, or have conducted, emission testing for emissions unit N003 or N004 in accordance with the following requirements:
- The emission testing shall be conducted, approximately 2.5 years after permit issuance. The emission testing shall be conducted for emissions units N003 and N004 on a rotating basis such that a different emissions unit is tested during each subsequent emission test.
  - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
  - The following test method(s) shall be employed: for particulates, Methods 1-5 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
  - The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
  - The sludge feed rate during the test(s) shall be recorded.  
Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

- None

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Facility ID: 0125040421 Emissions Unit ID: N004 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		

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**II. Operational Restrictions**

- 1. None

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

- 1. None

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**IV. Reporting Requirements**

- 1. None

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**V. Testing Requirements**

- 1. None

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**VI. Miscellaneous Requirements**

- 1. None