

Facility ID: 0448010737 Issuance type: Title V Preliminary Proposed Permit

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

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

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

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#### **Part II - Specific Facility Terms and Conditions**

##### **a State and Federally Enforceable Section**

1. None

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##### **b State Only Enforceable Section**

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

B007 - SH boiler #1;  
B008 - SH boiler #2; and  
B009 - SH boiler #3.

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

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- [Go to Part III for Emissions Unit P002](#)
- [Go to Part III for Emissions Unit P003](#)
- [Go to Part III for Emissions Unit P004](#)
- [Go to Part III for Emissions Unit P005](#)
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**Part III - Terms and Conditions for Emissions Units**

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Facility ID: 0448010737 Emissions Unit ID: P001 Issuance type: Title V Preliminary Proposed Permit

**A. State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Powers 58MGD Pump (460HP), fueled by natural gas, digester gas or #2 fuel oil	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(a)	0.25 pound of particulates per million Btu of actual heat input  See A.I.2.b below.
	OAC rule 3745-17-11(B)(5)(a)	0.310 pound of particulates per million Btu of actual heat input  See A.I.2.c below.
	OAC rule 3745-18-06(G)	0.5 pound of sulfur dioxide per million Btu of actual heat input

**2. Additional Terms and Conditions**

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- c. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound sulfur dioxide per million Btus actual heat input. Compliance with this specification shall be determined by using a weighted average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.
3. The quality of the digester gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound of sulfur dioxide per million Btu of actual heat input.

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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. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall collect a representative sample for the digester gas that is burned in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform analyses of each digester gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.
5. The permittee shall maintain records of the total quantity of digester gas combusted and the permittee's analyses for sulfur content and heat content.

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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 #2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during each calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during each calendar month.

\* in proportion to the quantity of oil received in each shipment during the calendar month

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.
3. The permittee shall submit, on a quarterly basis, copies of the permittee's analyses for the digester gas which is burned in this emissions unit. The permittee's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.
 

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the digester gas burned during the previous calendar quarter.

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**V. Testing Requirements**

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

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
  - b. Emission Limitation:
 

0.25 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

When burning #2 fuel oil, the permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96). The Ohio EPA revised the emission limitation specified in this rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/mmBtu actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

c. Emission Limitation:

0.310 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

d. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the record keeping requirements of sections A.III.3 and A.III.5 shall be considered an adequate demonstration of compliance. If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(E) and (F).

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VI. **Miscellaneous Requirements**

1. None

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**Facility ID: 0448010737 Emissions Unit ID: P001 Issuance type: Title V Preliminary Proposed Permit**

**B. State Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

- 1. None

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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**Facility ID: 0448010737 Emissions Unit ID: P002 Issuance type: Title V Preliminary Proposed Permit**

**A. State and Federally Enforceable Section**

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Powers air compressor for secondary aeration system (850 HP), fueled by natural gas, digester gas or #2 fuel oil	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(b)	0.35 pound of particulates per million Btu of actual heat input  See A.I.2.b below.
	OAC rule 3745-17-11(B)(5)(b)	0.062 pound of particulates per million Btu of actual heat input  See A.I.2.c below.

OAC rule 3745-18-06(G)

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

**2. Additional Terms and Conditions**

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- c. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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1. The permittee shall burn only natural gas, digester gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound sulfur dioxide per million Btus actual heat input. Compliance with this specification shall be determined by using a weighted average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.
3. The quality of the digester gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound of sulfur dioxide per million Btu of actual heat input.

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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. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall collect a representative sample for the digester gas that is burned in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform analyses of each digester gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.
5. The permittee shall maintain records of the total quantity of digester gas combusted and the permittee's analyses for sulfur content and heat content.

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1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, digester gas and/or #2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during each calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during each calendar month.

\* in proportion to the quantity of oil received in each shipment during the calendar month

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's analyses for the digester gas which is burned in this emissions unit. The permittee's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the digester gas burned during the previous calendar quarter.

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#### V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:

0.35 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- c. Emission Limitation:

0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- d. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the record keeping requirements of sections A.III.3 and A.III.5 shall be considered an adequate demonstration of compliance. If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(E) and (F).

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#### VI. Miscellaneous Requirements

1. None

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**B. State Enforceable Section**

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

1. None.

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

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

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

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**II. Operational Restrictions**

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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**

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0448010737 Emissions Unit ID: P003 Issuance type: Title V Preliminary Proposed Permit

**A. State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Powers air compressor for secondary aeration system (438 HP), fueled by natural gas, digester gas or #2 fuel oil	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(a)	0.25 pound of particulates per million Btu of actual heat input  See A.I.2.b below.
	OAC rule 3745-17-11(B)(5)(a)	0.310 pound of particulates per million Btu of actual heat input  See A.I.2.c below.
	OAC rule 3745-18-06(G)	0.5 pound of sulfur dioxide per million Btu of actual heat input

**2. Additional Terms and Conditions**

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- c. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound sulfur dioxide per million Btus actual heat input. Compliance with this specification shall be determined by using a weighted average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.
3. The quality of the digester gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound of sulfur dioxide per million Btu of actual heat input.

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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. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall collect a representative sample for the digester gas that is burned in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform analyses of each digester gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.

5. The permittee shall maintain records of the total quantity of digester gas combusted and the permittee's analyses for sulfur content and heat content.

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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 #2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during each calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during each calendar month.

\* in proportion to the quantity of oil received in each shipment during the calendar month

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.
3. The permittee shall submit, on a quarterly basis, copies of the permittee's analyses for the digester gas which is burned in this emissions unit. The permittee's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.
 

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the digester gas burned during the previous calendar quarter.

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#### V. Testing Requirements

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

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
  - b. Emission Limitation:
 

0.25 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

When burning #2 fuel oil, the permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96). The Ohio EPA revised the emission limitation specified in this rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/mmBtu actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).
  - c. Emission Limitation:
 

0.310 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

d. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the record keeping requirements of sections A.III.3 and A.III.5 shall be considered an adequate demonstration of compliance. If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(E) and (F).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010737 Emissions Unit ID: P003 Issuance type: Title V Preliminary Proposed Permit

**B. State Enforceable Section**

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

1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. <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: 0448010737 Emissions Unit ID: P004 Issuance type: Title V Preliminary Proposed Permit

A. **State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Powers air compressor for secondary aeration system (850 HP), fueled by natural gas, digester gas or #2 fuel oil	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(b)	0.35 pound of particulates per million Btu of actual heat input  See A.I.2.b below.
	OAC rule 3745-17-11(B)(5)(b)	0.062 pound of particulates per million Btu of actual heat input  See A.I.2.c below.
	OAC rule 3745-18-06(G)	0.5 pound of sulfur dioxide per million Btu of actual heat input

2. **Additional Terms and Conditions**

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- c. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which

- is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound sulfur dioxide per million Btus actual heat input. Compliance with this specification shall be determined by using a weighted average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.
3. The quality of the digester gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound of sulfur dioxide per million Btu of actual heat input.

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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. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall collect a representative sample for the digester gas that is burned in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform analyses of each digester gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.
5. The permittee shall maintain records of the total quantity of digester gas combusted and the permittee's analyses for sulfur content and heat content.

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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 #2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during each calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during each calendar month.

\* in proportion to the quantity of oil received in each shipment during the calendar month

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.
3. The permittee shall submit, on a quarterly basis, copies of the permittee's analyses for the digester gas which is burned in this emissions unit. The permittee's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.
 

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the digester gas burned during the previous calendar quarter.

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### V. Testing Requirements

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

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

0.35 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

c. Emission Limitation:

0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

d. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the record keeping requirements of sections A.III.3 and A.III.5 shall be considered an adequate demonstration of compliance. If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(E) and (F).

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VI. **Miscellaneous Requirements**

1. None

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**Facility ID: 0448010737 Emissions Unit ID: P004 Issuance type: Title V Preliminary Proposed Permit**

**B. State Enforceable Section**

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

1. None.

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

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

- |    | <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|----|---|--------------------------------------|--|
| 2. | <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: 0448010737 Emissions Unit ID: P005 Issuance type: Title V Preliminary Proposed Permit

**A. State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Powers air compressor for secondary aeration system (850 HP), fueled by natural gas, digester gas or #2 fuel oil	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(b)	0.35 pound of particulates per million Btu of actual heat input
		See A.I.2.b below.
	OAC rule 3745-17-11(B)(5)(b)	0.062 pound of particulates per million Btu of actual heat input

See A.I.2.c below.

OAC rule 3745-18-06(G)

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

2. **Additional Terms and Conditions**

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- c. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound sulfur dioxide per million Btus actual heat input. Compliance with this specification shall be determined by using a weighted average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.
3. The quality of the digester gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound of sulfur dioxide per million Btu of actual heat input.

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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. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall collect a representative sample for the digester gas that is burned in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform analyses of each digester gas sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.
5. The permittee shall maintain records of the total quantity of digester gas combusted and the permittee's analyses for sulfur content and heat content.

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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 #2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during each calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during each calendar month.

\* in proportion to the quantity of oil received in each shipment during the calendar month

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's analyses for the digester gas which is burned in this emissions unit. The permittee's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the digester gas burned during the previous calendar quarter.

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V. **Testing Requirements**

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

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
  - b. Emission Limitation:
 

0.35 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).
  - c. Emission Limitation:
 

0.062 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).
  - d. Emission Limitation:
 

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

Applicable Compliance Method:

Compliance with the record keeping requirements of sections A.III.3 and A.III.5 shall be considered an adequate demonstration of compliance. If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(E) and (F).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010737 Emissions Unit ID: P005 Issuance type: Title V Preliminary Proposed Permit

**B. State Enforceable Section**

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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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: 0448010737 Emissions Unit ID: P006 Issuance type: Title V Preliminary Proposed Permit

**A. State and Federally Enforceable Section**

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Powers air compressor for secondary aeration system (506 HP), fueled by natural gas, digester gas or #2 fuel oil	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(a)	0.25 pound of particulates per million Btu of actual heat input  See A.I.2.b below.
	OAC rule 3745-17-11(B)(5)(a)	0.310 pound of particulates per million Btu of actual heat input  See A.I.2.c below.
	OAC rule 3745-18-06(G)	0.5 pound of sulfur dioxide per million Btu of actual heat input

**2. Additional Terms and Conditions**

- a. Visible particulate emissions, from any stack, shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
- b. The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- c. This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas and/or #2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet on an "as received" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound sulfur dioxide per million Btus actual heat input. Compliance with this specification shall be determined by using a weighted average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.
3. The quality of the digester gas burned in this emissions unit shall meet on an "as burned" basis a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 pound of sulfur dioxide per million Btu of actual heat input.

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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. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content.
4. The permittee shall collect a representative sample for the digester gas that is burned in this emissions unit. Sampling shall be performed initially on a quarterly basis. (The permittee may petition the Director to reduce testing frequency based on sampling records.) The permittee shall perform analyses of each digester gas

sample for sulfur content, heat content and density in accordance with the appropriate ASTM methods. Alternative, equivalent test methods may be used upon written approval by the Toledo Division of Environmental Services.

5. The permittee shall maintain records of the total quantity of digester gas combusted and the permittee's analyses for sulfur content and heat content.

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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 #2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
  - a. the total quantity of oil received in each shipment (gallons);
  - b. the weighted\* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during each calendar month; and
  - c. the weighted\* average heat content (Btu/gallon) of the oil received during each calendar month.

\* in proportion to the quantity of oil received in each shipment during the calendar month

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. The permittee shall submit, on a quarterly basis, copies of the permittee's analyses for the digester gas which is burned in this emissions unit. The permittee's analyses shall document the sulfur content (percent by volume), heat content (Btu/cuft), and calculated sulfur dioxide emission rate (lb/mmBtu) for each sample.

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the digester gas burned during the previous calendar quarter.

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#### V. Testing Requirements

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

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-17-03(B)(1).
  - b. Emission Limitation:

0.25 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

When burning #2 fuel oil, the permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96). The Ohio EPA revised the emission limitation specified in this rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/mmBtu actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/mmBtu actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).
  - c. Emission Limitation:

0.310 pound of particulates per million Btu of actual heat input

Applicable Compliance Method:

When burning natural gas and/or digester gas, compliance may be based upon an emission factor of 0.029 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (10/96).

When burning #2 fuel oil, compliance may be based upon an emission factor of 0.31 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

d. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the record keeping requirements of sections A.III.3 and A.III.5 shall be considered an adequate demonstration of compliance. If required, the permittee shall demonstrate compliance using the methods and procedures of OAC rule 3745-18-04(E) and (F).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010737 Emissions Unit ID: P006 Issuance type: Title V Preliminary Proposed Permit

**B. State Enforceable Section**

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

- 1. None.

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

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. <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