

Facility ID: 1431154026 Issuance type: Title V Draft 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.

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. None

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

### b State Only Enforceable Section

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

F001 - wood waste storage silo;  
F002 - bottom ash handling; and  
F003 - plant roadways.

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.

The following insignificant emissions units are located at this facility:

F001 - wood waste storage silo;  
F002 - bottom ash handling; and  
F003 - plant roadways.

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.

- [Go to Part III for Emissions Unit B001](#)
- [Go to Part III for Emissions Unit B002](#)
- [Go to Part III for Emissions Unit B003](#)
- [Go to Part III for Emissions Unit B004](#)

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431154026 Emissions Unit ID: B001 Issuance type: Title V Draft 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>
73.5 MMBtu/hr natural gas and No. 2 fuel oil-fired boiler	OAC rule 3745-31-05(D) (PTI 14-4755)	See A.I.2.
	-Synthetic Minor limitation for SO2 was developed under PTI 14-4755 to avoid PSD review.	
	-Netting determination for NOx was developed under PTI 14-4755 to avoid PSD review.	
	OAC rule 3745-31-05(A)(3) (PTI 14-4755)	The requirements of this rule also include compliance with 40 CFR Part 60 Subpart Dc.
	OAC rule 3745-17-07(A)	The visible emission limitation specified in OAC rule 3745-17-07(A) is less stringent than the visible emission limitation specified in 40 CFR Part 60 Subpart Dc.
	OAC rule 3745-17-10(B)	The PE limitation specified in OAC rule 3745-17-10 (B) is less stringent than that established in PTI 14-4755 pursuant to OAC rule 3745-31-05(D).
OAC rule 3745-18-06(D)	The SO2 emission limitation specified in OAC rule 3745-18-06(D) is less stringent than that established in PTI 14-4755 pursuant to OAC rule 3745-31-05(D).	
40 CFR Part 60 Subpart Dc	Visible PE shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.	

2. Additional Terms and Conditions

- a. When burning only natural gas the following emission limitations shall not be exceeded:

- (a)
  - 0.005 lb Particulate Emissions (PE)/MMBtu\*
  - 0.004 lb Organic Compounds (OC)/MMBtu \*
  - 0.10 lb Carbon Monoxide (CO)/MMBtu\*
  - 0.08 lb Nitrogen Oxides (NOx)/MMBtu\*
  - 0.0006 lb Sulfur Dioxide (SO2)/MMBtu\*

\*This lb/MMBtu emission limitation was developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

- b. When burning No. 2 fuel oil the following emission limitations shall not be exceeded:

- 0.020 lb Particulate Emissions (PE)/MMBtu\*
- 0.004 lb Organic Compounds (OC)/MMBtu \*
- 0.10 lb Carbon Monoxide (CO)/MMBtu\*

- 0.17 lb Nitrogen Oxides (NOx)/MMBtu\*  
0.306 lb Sulfur Dioxide (SO<sub>2</sub>)/MMBtu

\*This lb/MMBtu emission limitation was developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

- c. The total combined emissions from emissions units B001-B003 shall not exceed the following based on a rolling, 12-month summation:

7.2 TPY PE  
6.6 TPY PM10  
4.4 TPY OC  
96.6 TPY CO  
36.8 TPY SO<sub>2</sub>  
97.5 TPY NO<sub>x</sub>

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

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

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

#### II. Operational Restrictions

1. The permittee shall operate and maintain low-NO<sub>x</sub> burners capable of meeting the NO<sub>x</sub> emission limitations specified in A.I.2 at all times when operating emissions units B001-B003.
2. The quality of the No. 2 fuel oil burned in emissions units B001-B003 shall have a combination of sulfur content and heat content sufficient to comply with the allowable SO<sub>2</sub> emission limitation of 0.306 pound SO<sub>2</sub>/MMBtu actual heat input.
3. The total amount of No. 2 fuel oil burned in emissions units B001-B003, combined, shall not exceed 1,790,000 gallons per year based upon a rolling, 12-month summation.
4. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

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

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

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

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

1. The permittee shall collect and record the following information on a monthly basis:
  - a. The total amount of No. 2 fuel oil burned in emissions units B001- B003, combined.
  - b. The rolling 12-month summation of the usage totals recorded pursuant to A.III.1.a (i.e., the current month's total added to the previous 11-month total).
2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

##### a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

##### b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee'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).)

All analyses for sulfur content and heat content shall be performed by the supplier and/or the permittee in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

3. For each day during which the permittee burns a fuel other than natural gas and/or No.2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

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

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

#### IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record

which shows a deviation of the allowable sulfur dioxide limitation specified in A.II.2 based upon the calculated sulfur dioxide emission rates from A.III.2 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel oil usage limitation of 1,790,000 gallons.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. 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.

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

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

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

**V. Testing Requirements**

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

Emission Limitations-

0.005 lb of PE/MMBtu of actual heat input when burning only natural gas

0.020 lb of PE/MMBtu of actual heat input when burning fuel oil

7.2 TPY of PE

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning No. 2 fuel oil-

For the use of No. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations above pursuant to OAC rule 3745-17-03(B)(9).

2. Emission Limitations -
  - 0.306 lb of SO<sub>2</sub>/MMBtu of actual heat input when burning fuel oil
  - 0.0006 lb of SO<sub>2</sub>/MMBtu of actual heat input when burning only natural gas
  - 36.8 TPY of SO<sub>2</sub>

Applicable compliance method when burning No. 2 fuel oil-

Compliance with the allowable sulfur dioxide emission limitation shall be based upon the calculated sulfur dioxide emission rates for each shipment of oil received during the calendar month.

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lb SO<sub>2</sub>/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance with the lb/MMBtu limitations and the No. 2 fuel oil usage restriction specified in A.II.3 are maintained. (Should the annual actual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factor and methodologies specified above for natural gas, and the calculated SO<sub>2</sub> emission rates and fuel usage information collected and recorded in A.III. for No. 2 fuel oil.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations in accordance with USEPA reference Method 6, Method 6A, Method 6B, or Method 6c, whichever is appropriate, of 40 CFR, Part 60, Appendix A.

3. Emission Limitations-
  - 0.08 lb of NO<sub>x</sub>/MMBtu of actual heat input when burning only natural gas
  - 0.17 lb of NO<sub>x</sub>/MMBtu of actual heat input when burning No.2 fuel oil
  - 97.5 TPY of NO<sub>x</sub>

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO<sub>x</sub>/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

## Applicable compliance method when No. 2 fuel oil-

For the use of No. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NOx/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

## 4. Emission Limitations-

0.10 lb of CO/MMBtu of actual heat input when burning natural gas and/or No.2 fuel oil  
96.6 TPY of CO

## Applicable compliance method when burning natural gas-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs CO/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

## Applicable compliance method when burning No. 2 fuel oil-

For the use of No.2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation in accordance with Method 10, 40 CFR, Part 60, Appendix A.

## 5. Emission Limitations-

0.004 lb of OC/MMBtu of actual heat input when burning natural gas and/or No.2 fuel oil  
4.4 TPY of OC

## Applicable compliance method when burning natural gas-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 5.5 lbs VOC/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

## Applicable compliance method when burning No. 2 fuel oil-

For the use of No.2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu limitation in accordance with Method 25, 40 CFR, Part 60, Appendix A.

## 6. Emission Limitation-

Visible particulate emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.

## Applicable Compliance Method-

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

## 7. Compliance with the total combined No. 2 fuel oil usage limitation in A.II.3. shall be determined by the record keeping in A.III.1.

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

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

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

## VI. Miscellaneous Requirements

## 1. The following is a summary of the netting emissions, in tons per year (TPY):

Emissions Unit	Pollutant	Decrease	Increase
1431154026	B001-B003 NOx		+97.5

1431150801 B001-B003 NOx -136.0\*\*

1431150801 K013 NOx +2.8  
(PTI 14-4281)  
PTI Issued 07/23/97

1431150801 K014 NOx +9.95  
(PTI 14-4511)  
PTI Issued 06/10/98

Net Emissions Change -25.75

\*\* Based on the average of the actual emissions for 1997 and 1998.

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

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

Facility ID: 1431154026 Emissions Unit ID: B001 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

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

1. None.

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

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

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

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

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

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

**II. Operational Restrictions**

1. None

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

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

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

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

1. None

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

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

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

**IV. Reporting Requirements**

1. None

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

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

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

**V. Testing Requirements**

1. None

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

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

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

**VI. Miscellaneous Requirements**

- 1. None

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431154026 Emissions Unit ID: B002 Issuance type: Title V Draft 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>
73.5 MMBtu/hr natural gas and No. 2 fuel oil-fired boiler	OAC rule 3745-31-05(D) (PTI 14-4755)	See A.I.2.
	-Synthetic Minor limitation for SO2 was developed under PTI 14-4755 to avoid PSD review.	
	-Netting determination for NOx was developed under PTI 14-4755 to avoid PSD review.	
	OAC rule 3745-31-05(A)(3) (PTI 14-4755)	The requirements of this rule also include compliance with 40 CFR Part 60 Subpart Dc.
	OAC rule 3745-17-07(A)	The visible emission limitation specified in OAC rule 3745-17-07(A) is less stringent than the visible emission limitation specified in 40 CFR Part 60 Subpart Dc.
	OAC rule 3745-17-10(B)	The PE limitation specified in OAC rule 3745-17-10 (B) is less stringent than that established in PTI 14-4755 pursuant to OAC rule 3745-31-05(D).
OAC rule 3745-18-06(D)	The SO2 emission limitation specified in OAC rule 3745-18-06(D) is less stringent than that established in PTI 14-4755 pursuant to OAC rule 3745-31-05(D).	
40 CFR Part 60 Subpart Dc	Visible PE shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.	

2. Additional Terms and Conditions

- a. When burning only natural gas the following emission limitations shall not be exceeded:

- (a)
  - 0.005 lb Particulate Emissions (PE)/MMBtu\*
  - 0.004 lb Organic Compounds (OC)/MMBtu \*
  - 0.10 lb Carbon Monoxide (CO)/MMBtu\*
  - 0.08 lb Nitrogen Oxides (NOx)/MMBtu\*
  - 0.0006 lb Sulfur Dioxide (SO2)/MMBtu\*

\*This lb/MMBtu emission limitation was developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

- b. When burning No. 2 fuel oil the following emission limitations shall not be exceeded:

- 0.020 lb Particulate Emissions (PE)/MMBtu\*
- 0.004 lb Organic Compounds (OC)/MMBtu \*
- 0.10 lb Carbon Monoxide (CO)/MMBtu\*
- 0.17 lb Nitrogen Oxides (NOx)/MMBtu\*
- 0.306 lb Sulfur Dioxide (SO2)/MMBtu

\*This lb/MMBtu emission limitation was developed for PTI purposes to reflect the potential to emit for

this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

- c. The total combined emissions from emissions units B001-B003 shall not exceed the following based on a rolling, 12-month summation:

7.2 TPY PE  
6.6 TPY PM10  
4.4 TPY OC  
96.6 TPY CO  
36.8 TPY SO2  
97.5 TPY NOx

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

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

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

#### II. Operational Restrictions

1. The permittee shall operate and maintain low-NOx burners capable of meeting the NOx emission limitations specified in A.I.2 at all times when operating emissions units B001-B003.
2. The quality of the No. 2 fuel oil burned in emissions units B001-B003 shall have a combination of sulfur content and heat content sufficient to comply with the allowable SO2 emission limitation of 0.306 pound SO2/MMBtu actual heat input.
3. The total amount of No. 2 fuel oil burned in emissions units B001-B003, combined, shall not exceed 1,790,000 gallons per year based upon a rolling, 12-month summation.
4. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

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

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

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

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

1. The permittee shall collect and record the following information on a monthly basis:
  - a. The total amount of No. 2 fuel oil burned in emissions units B001- B003, combined.
  - b. The rolling 12-month summation of the usage totals recorded pursuant to A.III.1.a (i.e., the current month's total added to the previous 11-month total).
2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.
  - a. Alternative 1:  
  
For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
  - b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee'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).)

All analyses for sulfur content and heat content shall be performed by the supplier and/or the permittee in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

3. For each day during which the permittee burns a fuel other than natural gas and/or No.2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

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

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

#### IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the allowable sulfur dioxide limitation specified in A.II.2 based upon the calculated sulfur dioxide emission rates from A.III.2 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel oil usage limitation of 1,790,000 gallons.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. 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.

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

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

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

**V. Testing Requirements**

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

Emission Limitations-

  - 0.005 lb of PE/MMBtu of actual heat input when burning only natural gas
  - 0.020 lb of PE/MMBtu of actual heat input when burning fuel oil
  - 7.2 TPY of PE

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning No. 2 fuel oil-

For the use of No. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations above pursuant to OAC rule 3745-17-03(B)(9).
2. Emission Limitations -
  - 0.306 lb of SO<sub>2</sub>/MMBtu of actual heat input when burning fuel oil
  - 0.0006 lb of SO<sub>2</sub>/MMBtu of actual heat input when burning only natural gas
  - 36.8 TPY of SO<sub>2</sub>

Applicable compliance method when burning No. 2 fuel oil-

Compliance with the allowable sulfur dioxide emission limitation shall be based upon the calculated sulfur dioxide emission rates for each shipment of oil received during the calendar month.

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lb SO<sub>2</sub>/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance with the lb/MMBtu limitations and the No. 2 fuel oil usage restriction specified in A.II.3 are maintained. (Should the annual actual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factor and methodologies specified above for natural gas, and the calculated SO<sub>2</sub> emission rates and fuel usage information collected and recorded in A.III. for No. 2 fuel oil.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations in accordance with USEPA reference Method 6, Method 6A, Method 6B, or Method 6c, whichever is appropriate, of 40 CFR, Part 60, Appendix A.
3. Emission Limitations-
  - 0.08 lb of NO<sub>x</sub>/MMBtu of actual heat input when burning only natural gas
  - 0.17 lb of NO<sub>x</sub>/MMBtu of actual heat input when burning No.2 fuel oil
  - 97.5 TPY of NO<sub>x</sub>

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO<sub>x</sub>/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when No. 2 fuel oil-

For the use of No. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO<sub>x</sub>/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

4. Emission Limitations-  
0.10 lb of CO/MMBtu of actual heat input when burning natural gas and/or No.2 fuel oil  
96.6 TPY of CO
- Applicable compliance method when burning natural gas-  
For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs CO/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).
- Applicable compliance method when burning No. 2 fuel oil-  
For the use of No.2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).
- Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)
- If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation in accordance with Method 10, 40 CFR, Part 60, Appendix A.
5. Emission Limitations-  
0.004 lb of OC/MMBtu of actual heat input when burning natural gas and/or No.2 fuel oil  
4.4 TPY of OC
- Applicable compliance method when burning natural gas-  
For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 5.5 lbs VOC/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).
- Applicable compliance method when burning No. 2 fuel oil-  
For the use of No.2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).
- Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)
- If required, the permittee shall demonstrate compliance with the lb/MMBtu limitation in accordance with Method 25, 40 CFR, Part 60, Appendix A.
6. Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.
- Applicable Compliance Method-  
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).
7. Compliance with the total combined No. 2 fuel oil usage limitation in A.II.3. shall be determined by the record keeping in A.III.1.

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

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

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

VI. **Miscellaneous Requirements**

1. The following is a summary of the netting emissions, in tons per year (TPY):

Emissions Unit Pollutant Decrease Increase  
1431154026 B001-B003 NOx +97.5

1431150801 B001-B003 NOx -136.0\*\*

1431150801 K013 NOx +2.8  
(PTI 14-4281)

PTI Issued 07/23/97

1431150801 K014 NOx +9.95  
 (PTI 14-4511)  
 PTI Issued 06/10/98

Net Emissions Change -25.75

\*\* Based on the average of the actual emissions for 1997 and 1998.

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

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

Facility ID: 1431154026 Emissions Unit ID: B002 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

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

- 1. None.

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

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

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

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

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

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

**II. Operational Restrictions**

- 1. None

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

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

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

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

- 1. None

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

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

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

**IV. Reporting Requirements**

- 1. None

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

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

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

**V. Testing Requirements**

- 1. None

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

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

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

**VI. Miscellaneous Requirements**

- 1. None

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431154026 Emissions Unit ID: B003 Issuance type: Title V Draft 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>
73.5 MMBtu/hr natural gas and No. 2 fuel oil-fired boiler	OAC rule 3745-31-05(D) (PTI 14-4755)	See A.I.2.
	-Synthetic Minor limitation for SO2 was developed under PTI 14-4755 to avoid PSD review.	
	-Netting determination for NOx was developed under PTI 14-4755 to avoid PSD review.	
	OAC rule 3745-31-05(A)(3) (PTI 14-4755)	The requirements of this rule also include compliance with 40 CFR Part 60 Subpart Dc.
	OAC rule 3745-17-07(A)	The visible emission limitation specified in OAC rule 3745-17-07(A) is less stringent than the visible emission limitation specified in 40 CFR Part 60 Subpart Dc.
	OAC rule 3745-17-10(B)	The PE limitation specified in OAC rule 3745-17-10(B) is less stringent than that established in PTI 14-4755 pursuant to OAC rule 3745-31-05(D).
OAC rule 3745-18-06(D)	The SO2 emission limitation specified in OAC rule 3745-18-06(D) is less stringent than that established in PTI 14-4755 pursuant to OAC rule 3745-31-05(D).	
40 CFR Part 60 Subpart Dc	Visible PE shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.	

2. Additional Terms and Conditions

- a. When burning only natural gas the following emission limitations shall not be exceeded:

- (a)
  - 0.005 lb Particulate Emissions (PE)/MMBtu\*
  - 0.004 lb Organic Compounds (OC)/MMBtu \*
  - 0.10 lb Carbon Monoxide (CO)/MMBtu\*
  - 0.08 lb Nitrogen Oxides (NOx)/MMBtu\*
  - 0.0006 lb Sulfur Dioxide (SO2)/MMBtu\*

\*This lb/MMBtu emission limitation was developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

- b. When burning No. 2 fuel oil the following emission limitations shall not be exceeded:

- 0.020 lb Particulate Emissions (PE)/MMBtu\*
  - 0.004 lb Organic Compounds (OC)/MMBtu \*
  - 0.10 lb Carbon Monoxide (CO)/MMBtu\*
  - 0.17 lb Nitrogen Oxides (NOx)/MMBtu\*
  - 0.306 lb Sulfur Dioxide (SO2)/MMBtu

\*This lb/MMBtu emission limitation was developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

- c. The total combined emissions from emissions units B001-B003 shall not exceed the following based on

a rolling, 12-month summation:

7.2 TPY PE  
6.6 TPY PM10  
4.4 TPY OC  
96.6 TPY CO  
36.8 TPY SO2  
97.5 TPY NOx

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

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

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

**II. Operational Restrictions**

1. The permittee shall operate and maintain low-NOx burners capable of meeting the NOx emission limitations specified in A.I.2 at all times when operating emissions units B001-B003.
2. The quality of the No. 2 fuel oil burned in emissions units B001-B003 shall have a combination of sulfur content and heat content sufficient to comply with the allowable SO2 emission limitation of 0.306 pound SO2/MMBtu actual heat input.
3. The total amount of No. 2 fuel oil burned in emissions units B001-B003, combined, shall not exceed 1,790,000 gallons per year based upon a rolling, 12-month summation.
4. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

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

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

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

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

1. The permittee shall collect and record the following information on a monthly basis:
  - a. The total amount of No. 2 fuel oil burned in emissions units B001- B003, combined.
  - b. The rolling 12-month summation of the usage totals recorded pursuant to A.III.1.a (i.e., the current month's total added to the previous 11-month total).
2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.
  - a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
  - b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee'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).)

All analyses for sulfur content and heat content shall be performed by the supplier and/or the permittee in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.
3. For each day during which the permittee burns a fuel other than natural gas and/or No.2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

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

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

**IV. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record which shows a deviation of the allowable sulfur dioxide limitation specified in A.II.2 based upon the calculated sulfur dioxide emission rates from A.III.2 above. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month fuel oil usage limitation of 1,790,000 gallons.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural

gas or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

4. 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.

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

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

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

**V. Testing Requirements**

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

Emission Limitations-

0.005 lb of PE/MMBtu of actual heat input when burning only natural gas

0.020 lb of PE/MMBtu of actual heat input when burning fuel oil

7.2 TPY of PE

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning No. 2 fuel oil-

For the use of No. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations above pursuant to OAC rule 3745-17-03(B)(9).

2. Emission Limitations -  
0.306 lb of SO<sub>2</sub>/MMBtu of actual heat input when burning fuel oil  
0.0006 lb of SO<sub>2</sub>/MMBtu of actual heat input when burning only natural gas  
36.8 TPY of SO<sub>2</sub>

Applicable compliance method when burning No. 2 fuel oil-

Compliance with the allowable sulfur dioxide emission limitation shall be based upon the calculated sulfur dioxide emission rates for each shipment of oil received during the calendar month.

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lb SO<sub>2</sub>/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance with the lb/MMBtu limitations and the No. 2 fuel oil usage restriction specified in A.II.3 are maintained. (Should the annual actual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factor and methodologies specified above for natural gas, and the calculated SO<sub>2</sub> emission rates and fuel usage information collected and recorded in A.III. for No. 2 fuel oil.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations in accordance with USEPA reference Method 6, Method 6A, Method 6B, or Method 6c, whichever is appropriate, of 40 CFR, Part 60, Appendix A.

3. Emission Limitations-  
0.08 lb of NO<sub>x</sub>/MMBtu of actual heat input when burning only natural gas  
0.17 lb of NO<sub>x</sub>/MMBtu of actual heat input when burning No.2 fuel oil  
97.5 TPY of NO<sub>x</sub>

Applicable compliance method when burning only natural gas-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO<sub>x</sub>/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when No. 2 fuel oil-

For the use of No. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO<sub>x</sub>/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using

the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

- 4. Emission Limitations-  
0.10 lb of CO/MMBtu of actual heat input when burning natural gas and/or No.2 fuel oil  
96.6 TPY of CO

Applicable compliance method when burning natural gas-  
For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs CO/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning No. 2 fuel oil-  
For the use of No.2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation in accordance with Method 10, 40 CFR, Part 60, Appendix A.

- 5. Emission Limitations-  
0.004 lb of OC/MMBtu of actual heat input when burning natural gas and/or No.2 fuel oil  
4.4 TPY of OC

Applicable compliance method when burning natural gas-  
For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (MM cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 5.5 lbs VOC/MM cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning No. 2 fuel oil-  
For the use of No.2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance is maintained with the lb/MMBtu limitations specified in A.I.2 and the No. 2 fuel oil usage restriction specified in A.II.3. (Should the actual annual emission rate need to be calculated, the annual emission rate shall be calculated by using the emission factors and methodologies specified above and the No. 2 fuel oil usage information collected and recorded in A.III.1.)

If required, the permittee shall demonstrate compliance with the lb/MMBtu limitation in accordance with Method 25, 40 CFR, Part 60, Appendix A.

- 6. Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method-  
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

- 7. Compliance with the total combined No. 2 fuel oil usage limitation in A.II.3. shall be determined by the record keeping in A.III.1.

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

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

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

**VI. Miscellaneous Requirements**

- 1. The following is a summary of the netting emissions, in tons per year (TPY):

Emissions Unit Pollutant Decrease Increase  
1431154026 B001-B003 NOx +97.5

1431150801 B001-B003 NOx -136.0\*\*

1431150801 K013 NOx +2.8  
(PTI 14-4281)  
PTI Issued 07/23/97

1431150801 K014 NOx +9.95  
(PTI 14-4511)

PTI Issued 06/10/98

Net Emissions Change -25.75

\*\* Based on the average of the actual emissions for 1997 and 1998.

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

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

Facility ID: 1431154026 Emissions Unit ID: B003 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

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

- 1. None.

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

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

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

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

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

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

**II. Operational Restrictions**

- 1. None

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

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

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

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

- 1. None

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

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

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

**IV. Reporting Requirements**

- 1. None

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

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

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

**V. Testing Requirements**

- 1. None

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

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

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

**VI. Miscellaneous Requirements**

- 1. None

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431154026 Emissions Unit ID: B004 Issuance type: Title V Draft 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>
28.7 MMBtu/hr wood waste boiler with cyclone	OAC rule 3745-31-05(D) (PTI 14-4800)	See A.I.2.
	-Synthetic Minor limitation for PE/PM10 was developed under PTI 14-4800 to avoid PSD review.	
	-Netting determination for NOx, CO, and PM10 was developed under PTI 14-4800 to avoid PSD review.	
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-10(C)	The PE limitation specified in OAC rule 3745-17-10 (C) is less stringent than that established in PTI 14-4800 pursuant to OAC rule 3745-31-05(D).
	40 CFR Part 60 Subpart Dc OAC rule 3745-31-05(A)(3) (PTI 14-4800)	None (See A.II.2 and A.I.2.d below.) The requirements of this rule also include compliance with 40 CFR Part 60 Subpart Dc and OAC rule 3745-17-07(A).

**2. Additional Terms and Conditions**

- a. All the emissions shall be vented to a cyclone or equivalent control device capable of meeting the PE/PM10 emission limitations specified in this permit.
- b. The following emission limitations shall not be exceeded:
  - 0.20 lb Particulate Emissions (PE)/MMBtu
  - 0.01 lb Organic Compounds (OC)/MMBtu
  - 0.30 lb Carbon Monoxide (CO)/MMBtu
  - 0.604 lb Nitrogen Oxides (NOx)/MMBtu
  - 0.01 lb Sulfur Dioxide (SO2)/MMBtu
- c. The following emission limitations shall not be exceeded, based on a rolling, 12-month summation:
  - 14.26 TPY PE/PM10
  - 0.71 TPY OC
  - 21.4 TPY CO
  - 0.71 TPY SO2
  - 43.1 TPY NOx
- d. The SO2, PE, and visible emission limitations specified in 40 CFR Part 60 Subpart Dc do not apply because this emissions unit has a maximum rated heat input capacity of less than 30 MMBtu/hr and is restricted to burning only wood.

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

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

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

**II. Operational Restrictions**

1. The maximum annual wood waste fuel usage for this emissions unit shall not exceed 8,487 tons per year, based upon a rolling, 12-month summation.
2. The permittee shall only burn wood in this emissions unit.

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

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

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

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

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. A listing of all days when a fuel other than wood was burned.
  - b. The amount of wood waste burned, in tons.
  - c. The rolling 12-month summation of the usage totals recorded pursuant to A.III.1.b above, i.e., the current month's total added to the previous 11-month total.
  - d. The hours of operation of this emissions unit.
  - e. The rolling 12-month summation of the hours of operation of this emissions unit.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. For each day during which the permittee burns a fuel other than wood, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

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

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

IV. **Reporting Requirements**

1. The permittee shall submit annual reports that specify the total NO<sub>x</sub>, SO<sub>2</sub>, CO, OC, PE/PM<sub>10</sub> emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 30 of each year and cover the previous calendar year's operation.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month wood waste usage limitation of 8,487 tons per year.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (Hamilton County Department of Environmental Services) by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. 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.
5. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than wood was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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

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

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

V. **Testing Requirements**

1. Compliance with the emission limitations specified in this permit shall be determined in accordance with the following methods:
2. Emission Limitation-  
Visible particulate emissions shall not exceed 20% as a 6-minute average, except as specified by rule.  
  
Applicable Compliance Method-  
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).
3. Compliance with the fuel usage limitation in term A.II.1 shall be demonstrated by the record keeping in term A.III.1.
4. Within two months of completion of the control device improvements detailed in the Duke Solutions/Evendale L.L.C. compliance plan submitted on June 12, 2001 to the Hamilton County Department of Environmental Services, the permittee shall conduct, or have conducted emissions testing for PE, CO, NO<sub>x</sub>, SO<sub>2</sub> and OC for this emissions unit to demonstrate compliance with the allowable mass emission rates specified in A.I.2.b. Future emissions testing shall be conducted at the frequency specified in Ohio EPA Engineering Guide #16 based on the results of the initial emissions testing.  
  
Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.  
  
Compliance with the allowable mass emission rate for NO<sub>x</sub> shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

Compliance with the allowable mass emission rate for CO shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the allowable mass emission rate for SO<sub>2</sub> shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

Compliance with the allowable mass emission rate for OC shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. 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 tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Hamilton County Department of Environmental Services refusal to accept the results of the emission tests.

Personnel from the Hamilton County Department of Environmental Services 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 tests shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

5. Emission Limitations-  
0.01 lb of OC/MMBtu of actual heat input;  
0.71 TPY of OC

Applicable compliance method for OC-  
If required, compliance with the allowable mass emission rate for OC shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the annual emission limitation shall be calculated by multiplying the stack test result (lb/MMBTU) by the maximum rated heat input capacity of the emissions unit (MMBtu/hr) and by the actual hours of operation per year, and dividing by 2000 lbs/ton.

6. Emission Limitations-  
0.30 lb of CO/MMBtu of actual heat input;  
21.4 TPY of CO

Applicable compliance method for CO-  
If required, compliance with the allowable mass emission rate for CO shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the annual emission limitation shall be calculated by multiplying the stack test result (lb/MMBTU) by the maximum rated heat input capacity of the emissions unit (MMBtu/hr) and by the actual hours of operation per year, and dividing by 2000 lbs/ton.

7. Emission Limitations-  
0.604 lb of NO<sub>x</sub>/MMBtu of actual heat input;  
43.1 TPY of NO<sub>x</sub>

Applicable compliance method for NO<sub>x</sub>-  
If required, compliance with the allowable mass emission rate for NO<sub>x</sub> shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

Compliance with the annual emission limitation shall be calculated by multiplying the stack test result (lb/MMBTU) by the maximum rated heat input capacity of the emissions unit (MMBtu/hr) and by the actual hours of operation per year, and dividing by 2000 lbs/ton.

8. Emission Limitations-  
0.01 lb of SO<sub>2</sub>/MMBtu of actual heat input;  
0.71 TPY of SO<sub>2</sub>

Applicable compliance method for SO<sub>2</sub>-  
If required, compliance with the allowable mass emission rate for SO<sub>2</sub> shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

Compliance with the annual emission limitation shall be calculated by multiplying the stack test result (lb/MMBTU) by the maximum rated heat input capacity of the emissions unit (MMBtu/hr) and by the actual hours of operation per year, and dividing by 2000 lbs/ton.

9. Emission Limitations-  
0.2 lb of PE/PM<sub>10</sub>/MMBtu of actual heat input;  
14.26 TPY of PE/PM<sub>10</sub>

Applicable compliance method for PE/PM<sub>10</sub>-  
If required, compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the annual emission limitation shall be calculated by multiplying the stack test result (lb/MMBTU) by the maximum rated heat input capacity of the emissions unit (MMBtu/hr) and by the actual

hours of operation per year, and dividing by 2000 lbs/ton.

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

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

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

VI. **Miscellaneous Requirements**

1. The following is a summary of the netting emissions, in tons per year (TPY):

Emissions Unit Pollutant Decrease Increase

B001-B003  
(1431154026) NOx +87.2

B004  
(1431154026) NOx +43.1

B001-B005  
(1431150801) NOx -150.24\*\*

K013  
(1431150801) NOx +2.8  
(PTI 14-4281)

K014  
(1431150801) NOx +9.95  
(PTI 14-4511)

Net Emissions Change NOx -7.19

B001-B003  
(1431154026) CO +96.6

B004  
(1431154026) CO +21.4

B001-B005  
(1431150801) CO -81.0\*\*

K013  
(1431150801) CO +0.6  
(PTI 14-4281)

K014  
(1431150801) CO +2.46  
(PTI 14-4511)

Net Emissions Change CO +40.1

B001-B003  
(1431154026) PM10 +5.38

B004  
(1431154026) PM10 +14.26

B001-B005  
(1431150801) PM10 -5.35\*\*  
" Coal Handling System PM10 -0.37\*\*  
" Ash Handling System PM10 -0.23\*\*  
" Material Handling PM10 -0.05\*\*

K013  
(1431150801) PM10 +0.33  
(PTI 14-4281)

K014  
(1431150801) PM10 +0.99  
(PTI 14-4511)

Net Emissions Change PM10 +14.96

\*\* Based on the average of the actual emissions for 1997 and 1998.

2. Emissions unit B004 has failed to demonstrate compliance with the particulate emissions limit established in PTI 14-4800. Duke Solutions/Evendale L.L.C. shall follow the compliance plan submitted to the Hamilton County Department of Environmental Services on June 12, 2001. Until Duke Solutions/Evendale L.L.C. demonstrates compliance with the PE limitations as specified in section A.V.4 of this permit, emissions unit B004 shall not be operated for any purpose other than the instances noted in the Duke Solutions/Evendale L.L.C. compliance plan.

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

Facility ID: 1431154026 Issuance type: Title V Draft Permit

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

Facility ID: 1431154026 Emissions Unit ID: B004 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

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

1. None.

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

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

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

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

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

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

**II. Operational Restrictions**

1. None

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

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

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

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

1. None

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

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

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

**IV. Reporting Requirements**

1. None

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

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

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

**V. Testing Requirements**

1. None

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

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

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

**VI. Miscellaneous Requirements**

1. None