

Facility ID: 1318394002 Issuance type: Title V Final Permit

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

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

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

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

Facility ID: 1318394002 Issuance type: Title V Final 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: 1318394002 Issuance type: Title V Final Permit

b State Only Enforceable Section

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

Z008 - hot water heater 8-1;
Z009 - hot water heater 8-2;
Z010 - hot water heater 10-1;
Z011 - hot water heater 10-2;
Z012 - emergency generator; and
Z013 - fuel storage tanks.

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 N002](#)

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

Facility ID: 1318394002 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1318394002 Emissions Unit ID: B001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
35 mmBtu/hr natural gas/No.2 oil-fired boiler #1	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb of particulate emissions per mmBtu actual heat input
	OAC rule 3745-18-06(D)	1.6 lbs of sulfur dioxide emissions per mmBtu actual heat input when firing No.2 fuel oil
	OAC rule 3745-31-05(A)(3) (PTI#13-079)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-18-06(D), 3745-21-08, and 3745-23-06.
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-079.
- (a) On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- b. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-079.

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

2. The quality of the oil burned in this emissions unit shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1. above.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads or may be represented by a single batch analysis from the supplier.
4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

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

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

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

IV. Reporting Requirements

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

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

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

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation -
0.020 lb of particulate emissions per mmBtu actual heat input

Applicable Compliance Method -
For the use of natural gas, compliance may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (35,000 cu.ft/hr) by the AP-42 emission factor* for natural gas (1.9 lbs of particulates/mmcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr). For the use of No. 2 fuel oil, compliance may be based upon multiplying the maximum fuel oil capacity of the emissions unit (255 gal/hr) by the AP-42 emission factor** for No. 2 fuel oil (2 lbs of particulates/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2
**AP-42, Fifth Edition, Supplement D (9-98), Table 1.3-1

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A while firing No.2 fuel oil.
 - b. Emission Limitation -
1.6 lbs of SO₂ emissions per mmBtu actual heat input when firing No. 2 fuel oil

Applicable Compliance Method -
When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section A.III.3 above. When firing natural gas, compliance shall be assumed due to the negligible sulfur content in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 6 of 40 CFR Part 60, Appendix A while firing No.2 fuel oil.
 - c. Emission Limitation -
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the 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) using the methods and procedures specified in USEPA Reference Method 9.

[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: 1318394002 Issuance type: Title V Final Permit

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

Facility ID: 1318394002 Emissions Unit ID: B001 Issuance type: Title V Final Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
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: 1318394002 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1318394002 Emissions Unit ID: B002 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
35 mmBtu/hr natural gas/No.2 oil-fired boiler #2	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb of particulate emissions per mmBtu actual heat input
	OAC rule 3745-18-06(D)	1.6 lbs of sulfur dioxide emissions per mmBtu actual heat input when firing No.2 fuel oil
	OAC rule 3745-31-05(A)(3) (PTI#13-079)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-18-06(D), 3745-21-08, and 3745-23-06.
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-079.

(a)

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- b. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-079.

[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 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. For each day during which the permittee burns a fuel other than natural gas and/or No.2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The quality of the oil burned in this emissions unit shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1. above.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads or may be represented by a single batch analysis from the supplier.
4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

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

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

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

IV. Reporting Requirements

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

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

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

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

V. Testing Requirements

1. Compliance with the emission limitations in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation -
0.020 lb of particulate emissions per mmBtu actual heat input

Applicable Compliance Method -
For the use of natural gas, compliance may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (35,000 cu.ft/hr) by the AP-42 emission factor* for natural gas (1.9 lbs of particulates/mmcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr). For the use of No. 2 fuel oil, compliance may be based upon multiplying the maximum fuel oil capacity of the emissions unit (255 gal/hr) by the AP-42 emission factor** for No. 2 fuel oil (2 lbs of particulates/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2
**AP-42, Fifth Edition, Supplement D (9-98), Table 1.3-1

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A while firing No.2 fuel oil.
 - b. Emission Limitation -
1.6 lbs of SO2 emissions per mmBtu actual heat input when firing No. 2 fuel oil

Applicable Compliance Method -
When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section A.III.3 above. When firing natural gas, compliance shall be assumed due to the negligible sulfur content in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 6 of 40 CFR Part 60, Appendix A while firing No.2 fuel oil.
 - c. Emission Limitation -
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the 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) using the methods and procedures specified in USEPA Reference Method 9.

[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: 1318394002 Issuance type: Title V Final Permit

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

Facility ID: 1318394002 Emissions Unit ID: B002 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
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: 1318394002 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1318394002 Emissions Unit ID: B003 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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>
35 mmBtu/hr natural gas/No.2 oil-fired boiler #3	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb of particulate emissions per mmBtu actual heat input
	OAC rule 3745-18-06(D)	1.6 lbs of sulfur dioxide emissions per mmBtu actual heat input when firing No.2 fuel oil
	OAC rule 3745-31-05(A)(3) (PTI#13-079)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B)(1), 3745-18-06(D), 3745-21-08, and 3745-23-06.
	OAC rule 3745-21-08(B)	See A.I.2.a below.
	OAC rule 3745-23-06(B)	See A.I.2.b below.

2. Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-079.
- (a) On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- b. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 13-079.

[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 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. For each day during which the permittee burns a fuel other than natural gas and/or No.2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The quality of the oil burned in this emissions unit shall have a combination of sulfur content and heat content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I.1. above.
- 3. For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads or may be represented by a single batch analysis from the supplier.
- 4. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

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

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

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

IV. Reporting Requirements

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

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

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

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

V. **Testing Requirements**

1. Compliance with the emission limitations in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation -
0.020 lb of particulate emissions per mmBtu actual heat input

Applicable Compliance Method -
For the use of natural gas, compliance may be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (35,000 cu.ft/hr) by the AP-42 emission factor* for natural gas (1.9 lbs of particulates/mmcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr). For the use of No. 2 fuel oil, compliance may be based upon multiplying the maximum fuel oil capacity of the emissions unit (255 gal/hr) by the AP-42 emission factor** for No. 2 fuel oil (2 lbs of particulates/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (35 mmBtu/hr).

*AP-42, Fifth Edition, Supplement D (7-98), Table 1.4-2
**AP-42, Fifth Edition, Supplement D (9-98), Table 1.3-1

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A while firing No.2 fuel oil.
 - b. Emission Limitation -
1.6 lbs of SO2 emissions per mmBtu actual heat input when firing No. 2 fuel oil

Applicable Compliance Method -
When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section A.III.3 above. When firing natural gas, compliance shall be assumed due to the negligible sulfur content in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Method 6 of 40 CFR Part 60, Appendix A while firing No.2 fuel oil.
 - c. Emission Limitation -
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the 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) using the methods and procedures specified in USEPA Reference Method 9.

[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: 1318394002 Issuance type: Title V Final Permit

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

Facility ID: 1318394002 Emissions Unit ID: B003 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

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

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

- | | <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|----|---|--------------------------------------|--|
| 2. | Additional Terms and Conditions | | |
| 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: 1318394002 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1318394002 Emissions Unit ID: N002 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
infectious waste incinerator, with a maximum rated capacity of 530 lbs/hr (emissions are controlled by a wet scrubber)	40 CFR Part 62, Subpart HHH (Federal Implementation Plan requirements for Hospital/Medical/Infectious Waste Incinerators (HMIWI), constructed on or before June 20, 1996)	a. particulate emissions (PE): 0.015 grain per dry standard cubic foot of exhaust gases (gr/dscf) b. carbon monoxide (CO): 40 parts per million (ppm), by volume c. dioxins/furans (D/F): 55 gr/billion dscf of total dioxins/furans or 1.0 gr/billion dscf of dioxins/furans Toxic Equivalency Factors (TEQ)

- d. hydrogen chloride (HCl): 100 ppm, by volume or 93% reduction
 - e. sulfur dioxide (SO₂): 55 ppm, by volume
 - f. nitrogen oxides (NO_x): 250 ppm, by volume
 - g. lead (Pb): 0.52 gr/1000dscf or 70% reduction
 - h. cadmium (Cd): 0.07 gr/1000dscf or 65% reduction
 - i. mercury (Hg): 0.24 gr/1000dscf or 85% reduction
- (all units corrected to 7% oxygen, dry basis at standard conditions)
- OAC rule 3745-75-02
 - a. Visible particulate emissions shall not exceed 5% opacity except for 6-minutes in any continuous 60-minute period during which the opacity shall not exceed 10%.
 - b. arsenic (As) and compounds: 0.0042 lb/hr
 - c. beryllium (Be) and compounds: 0.0076 lb/hr
 - d. chromium (Cr) and compounds: 0.0015 lb/hr
 - e. nickel (Ni) and compounds: 0.0076 lb/hr
 - OAC rule 3745-17-07(A)
 - The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-75-02.
 - OAC rule 3745-17-09
 - The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 62, Subpart HHH.
 - OAC rules 3745-75-02(B), (D), (E), (F)(3), (F)(5), and (F)(6)
 - The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 62, Subpart HHH.
 - OAC rule 3745-31-05(A)(3) (PTI No.13-1887)
 - 2.32 TPY of PE
 - 17.52 TPY of HCl
 - The emission limitations specified by this rule are less stringent than the emission limitations established pursuant to 40 CFR Part 62, Subpart HHH.
 - 40 CFR Part 60, Subpart Ce

2. **Additional Terms and Conditions**

- a. [40 CFR Part 62.14413]
- (a) The emission limitations established pursuant to 40 CFR Part 62, Subpart HHH shall apply at all times except during periods of startup, shutdown, or malfunction, provided that no hospital waste or medical/infectious waste is charged to the HMIWI during periods of startup, shutdown, or malfunction.

[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 waste material feed rate to this incinerator shall be limited to 530 pounds per hour, measured as a 3-hour rolling average. The permittee shall not burn more than 350 pounds per hour of infectious waste (i.e., red bag) without the prior written approval of the Cleveland Division of Air Quality.
2. All incineration shall occur in a controlled air, multi-chamber incinerator, or equivalent technology as approved by the Director, which provides complete combustion of waste, excluding metallic items, to carbonized or mineralized ash. Any ash that does not meet this criterion shall be re-incinerated.
3. The primary combustion chamber for this incinerator shall be maintained so that the exit gas is at a minimum temperature of 1400 degrees Fahrenheit. The secondary combustion chamber for this incinerator shall be operated so that the exit gas temperature is at a minimum of 1800 degrees Fahrenheit.
4. The secondary combustion chamber of this incinerator shall allow for a 2-second retention time at 1800 degrees Fahrenheit. Auxiliary heat input capacity, excluding any waste material heating value, shall be provided to independently maintain the secondary chamber at a temperature of 1800 degrees Fahrenheit until all waste materials are completely combusted.
5. This incinerator shall be equipped with an automatic feeder which is designed and operated so that wastes cannot be charged if the temperature of the gas exiting the secondary combustion chamber is less than 1800 degrees Fahrenheit.
6. Infectious waste shall not be loaded into the primary combustion chamber of this incinerator until the exit gas temperature has reached 1400 degrees Fahrenheit.
7. The stack(s) for this incinerator shall be designed to minimize the impact of the emissions on employees,

- residents, patients, visitors, and nearby residences. The design shall meet good engineering practices so as not to cause concentrations of any air contaminant at any air intake for heating and cooling of any building or at operable windows or doors.
8. If this incinerator is mechanically-fed, it must be equipped with an air lock system to prevent opening the incinerator to the room environment. The volume of the loading system shall be designed so as to prevent the overcharging of the unit to ensure complete combustion of the waste.
 9. This incinerator shall be equipped with an air pollution control system designed to reduce hydrogen chloride (HCl) emissions, dioxin/furan (D/F) emissions, and mercury (Hg) emissions and provide for continuous compliance with the HCl, D/F, and Hg emission limitations when the unit is in operation. The implementation of the control system shall be consistent with the timeline provided in 40 CFR part 62.14470(b)(2)(v).
 10. This incinerator, including all associated equipment and grounds, shall be designed, operated and maintained to prevent the emission of objectionable odors.
 11. Under no circumstances shall radiological or radioactive waste be charged into this unit.
The permittee shall not intentionally dispose of the following items by burning in the incinerator:
 - a. visible globules of mercury;
 - b. nickel-cadmium batteries; and
 - c. switches, thermometers, batteries, and other devices containing mercury.
 12. This incinerator shall be operated only by properly trained personnel. A minimum of 24 hours of incinerator operation training shall be provided to each operator before he or she is allowed to operate this incinerator. This may include, for each operator, the successful completion of the training course for the operation and maintenance of hospital medical waste incinerators developed by the Control Technology Center, U.S. EPA, courses or instructions provided by incinerator manufacturers, professional engineering organizations, colleges or universities, or Ohio EPA. A copy of all the training records for each operator shall be maintained on file for a period of 5 years and shall be immediately available to the Director (the Cleveland Division of Air Quality) upon request.
 13. This facility may not receive or incinerate any hazardous waste materials as defined in 40 CFR Part 261, Subpart D.
 14. The permittee shall have this incinerator inspected monthly using preventive maintenance procedures recommended by the equipment manufacturer. Each inspection shall include a written report identifying any needed repairs to the unit. If repairs are needed, the incinerator shall not be operated if the operation would result in any exceedance of the emission limitations detailed in this permit. These repairs shall be completed within 30 days of the inspection. If a time period longer than 30 days is needed to complete the repairs, the Cleveland Division of Air Quality shall be notified in writing. This notice shall list the repairs needed and the reason(s) the repairs could not be accomplished within the required time period. All inspection and repair reports shall be kept by the permittee for a period of 5 years and shall be made available to the Director (the Cleveland Division of Air Quality) upon request.
 15. The permittee is required to have a fully trained and qualified HMIWI operator, either at the facility or on-call. A trained and qualified HMIWI operator is defined in 40 CFR Parts 62.14421-62.14423.
 16. The permittee is required to maintain a site-specific HMIWI operating procedure, as required by 40 CFR Part 62.14424, and to review this operating information annually.
 17. The permittee is required to have a waste management plan, as required by 40 CFR Parts 62.14431-62.14432.
 18. The permittee shall maintain the air pollution control system to aid in the control of dioxin/furan, mercury, and HCl. The hourly applicable parameters required under 40 CFR part 62.14460 shall be maintained at or above the level established during the initial performance testing.
 19. The pH at the inlet to the wet scrubber shall be maintained at a value of 6.5 (as a 3-hour rolling average).
 20. The liquid flow rate to the wet scrubber inlet shall be maintained at a value of not less than 40 gallons per minute (as a 3-hour rolling average).
 21. The pressure drop across the wet scrubber shall be maintained at a value of not less than 30 inches of water (as a 3-hour rolling average) at all times while the incinerator is in operation.
 22. The minimum temperature at the outlet from the wet scrubber shall be maintained at a value of not less than 117 degrees Fahrenheit (as a 3-hour rolling average) at all times while the incinerator is in operation.
 23. The maximum temperature at the outlet from the wet scrubber shall be maintained at a value of not more than 121 degrees Fahrenheit (as a 3-hour rolling average) at all times while the incinerator is in operation.

[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 operate and maintain a continuous temperature monitor and recorder which measures and records the primary combustion exhaust gas temperature, the secondary combustion exhaust gas temperature, and the bypass stack temperature when the incinerator is in operation. Units shall be in degrees Fahrenheit. Accuracy for each thermocouple, monitor and recorder shall be guaranteed by the manufacturer to be within 0.75 percent of the temperature being measured or 2.5 degrees Fahrenheit, whichever is greater. The temperature monitors and recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
2. The permittee shall operate and maintain continuous monitors and recorders that measure and record the 3-hour average value, each minute when the incinerator is in operation, for the following parameters:

- a. Liquid flow rate to the wet scrubber inlet.
 - b. Pressure drop across the wet scrubber.
 - c. The pH at the inlet to the wet scrubber.
 - d. Minimum temperature at the outlet from the wet scrubber.
 - e. Maximum temperature at the outlet from the wet scrubber.
3. Radioactive waste shall not be charged to this incinerator. The permittee shall operate and maintain equipment to continuously monitor the radioactivity of all waste prior to combustion. This monitor shall be equipped with an alarm which sounds a warning when radioactive waste is present. For purposes of this permit, radioactive waste shall be defined as any waste which measures above ambient background levels of radiation. All radioactive infectious waste shall be managed in accordance with the applicable rules of the Ohio Department of Health and the regulations of the United States Nuclear Regulatory Commission.
 4. A scale (accurate to within one pound) shall be installed near this incinerator to weigh all of the material charged to the unit. A record of the total amount of material charged to this unit, as well as the amount of infectious waste material charged to this unit, on a pounds per 3-hour rolling average basis, shall be maintained as required by 40 CFR part 62.14454. (Alternative arrangements may be approved by the the Director (the Cleveland Division of Air Quality) provided they can be shown to be of equivalent effectiveness as a method of regulating flow into the incinerator and generating a permanent record of charging rates.)
 5. A logbook shall be maintained for each continuous emissions monitoring system installed on this incinerator to document all activities involving the monitoring systems. Appropriate records should include, as a minimum, preventive maintenance, quality assurance and corrective action activities.
 6. 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.
 7. Prior to burning any infectious waste in this incinerator, the permittee shall install, operate and maintain equipment to continuously monitor and record the carbon monoxide emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60, section 60.13 and Appendix B, Performance Specification 4 and OAC rule 3745-75-04. The permittee shall maintain and operate the carbon monoxide continuous emissions monitoring system in accordance with 40 CFR Part 60, Appendix F. Any new continuous emissions monitoring (CEM) system for carbon monoxide shall be designed so that the requirements in 40 CFR Part 60, Appendix F can be achieved.

The permittee shall operate a CEM system to measure oxygen concentrations, for adjusting pollutant concentrations to 7 percent oxygen (as specified in 40 CFR part 62.14452(e)).
 8. The permittee shall document all instances of carbon monoxide values in excess of the limitations specified in the terms and conditions of this permit.
 9. The certified CEM system for carbon monoxide shall be the means by which compliance with the terms and conditions of this permit is determined. Compliance with the appropriate emission limitation shall be based upon 12-hour, rolling averages, calculated each hour as the average of the previous 12 operating hours (not including start-up, shutdown, or malfunctions.)
 10. The carbon monoxide CEM system shall be equipped with an alarm which shall indicate whenever concentrations exceed 150 parts per million as an instantaneous measurement.
 11. The permittee shall maintain the following:
 - a. the names of HMIWI operators who have completed review of the documentation in 40 CFR part 62.14424 as required by 62.14425, including the date of the initial and all subsequent annual reviews;
 - b. the names of HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training;
 - c. the names of HMIWI operators who have met the criteria for qualification under part 62.14423 and the dates of their qualification; and
 - d. records of calibration of any monitoring devices as required under part 62.14454.

[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. Reporting Requirements for the Amount of Waste Incinerated

The permittee shall submit annual reports, by January 31 of each year, that provide the total amount of waste incinerated, in tons, during the previous calendar year.

The permittee also shall submit quarterly deviation (excursion) reports that identify all periods of operation during which the average charge rates exceeded either or both of the limitations specified in Section A.II.1. above, including the actual charge rate(s) for all such periods of operation. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii.

2. Reporting Requirements for Incinerator Temperature Excursions

The permittee shall submit quarterly deviation (excursion) reports that provide the following information for each period during which the primary or secondary combustion chamber exhaust gas temperature falls below the applicable limitation during normal operation:

- a. the date of the excursion;
- b. the time interval over which the excursion occurred;
- c. the temperature values during the excursion;
- d. the cause(s) for the excursion; and
- e. the corrective action which has been or will be taken to prevent similar excursions in the future.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii.

3. Reporting Requirements for Carbon Monoxide CEM Data

Pursuant to 40 CFR Part 60, section 60.7 and 60.13(h), 40 CFR Part 60, Appendix F and OAC rule 3745-75-05, the permittee shall submit quarterly reports that document all instances of carbon monoxide values in excess of the limitations specified in the terms and conditions of this permit. The permittee shall submit data assessment reports in accordance with 40 CFR Part 60, Appendix F. These reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

4. Reporting Requirements for Visible Emission Checks

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 by January 31 and July 31 of each year and shall cover the previous 6-month period.

5. Reporting Requirements for Emission Test Results

A comprehensive written report on the results of any emission test(s) shall be submitted within 60 days following completion of the test(s).

6. The permittee shall submit annual reports that contain the following information, pursuant to 40 CFR part 62.14463:

- a. The highest maximum operating parameter and the lowest minimum operating parameter for each operating parameter recorded for the calendar year being reported, pursuant to 40 CFR part 62.14453 as applicable.
- b. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded pursuant to 40 CFR part 62.14453 for the calendar year preceding the year being reported, in order to provide a summary of the performance of the HMIWI over a 2-year period.
- c. Identification of calendar days for which emission rates or operating parameters were not obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.
- d. Identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective actions taken.
- e. Any use of the bypass stack, duration of such use, reason for malfunction, and corrective actions taken.

7. All reports required by this permit shall be submitted to the Cleveland Division of Air Quality, and until a state plan as required by 40 CFR part 60, Subpart Ce is approved and becomes effective, a copy of all reports also must be submitted to the U.S. EPA Region V office.

8. The permittee shall submit reports on a quarterly basis to the Cleveland Division of Air Quality documenting all instances of values in excess of the limitations specified in OAC rule 3745-75-02. These quarterly reports shall be submitted by February 1, May 1, August 1, and November 1 of each year and shall cover the data obtained during the previous calendar quarters.

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

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

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

V. Testing Requirements

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

- a. Emission Limitation:
0.015 grain of PE per dry standard cubic foot of exhaust gases (gr/dscf)

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 or 29.

- b. Emission Limitation:
40 ppm CO, by volume

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 or 10B.

- c. Emission Limitation:
55 gr/billion dscf of total D/F or 1.0 gr/billion dscf of TEQ

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 23.

- d. Emission Limitation:
100 ppm HCl, by volume or 93% reduction

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 26 or 26A.

- e. Emission Limitation:
55 ppm SO₂, by volume

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

- f. Emission Limitation:
250 ppm NO_x, by volume

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

- g. Emission Limitation:
0.52 gr Pb/1000 dscf or 70% reduction

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

- h. Emission Limitation:
0.07 gr Cd/1000 dscf or 65% reduction

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

- i. Emission Limitation:
0.24 gr Hg/1000 dscf or 85% reduction

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

- j. Emission Limitation:
0.0042 lb/hr of As and compounds

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

- k. Emission Limitation:
0.0076 lb/hr of Be and compounds

Applicable Compliance Method:

Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

- l. Emission Limitation:

- 0.0015 lb/hr of Cr and compounds
- Applicable Compliance Method:
Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- m. Emission Limitation:
0.0076 lb/hr of Ni and compounds
- Applicable Compliance Method:
Compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- n. Emission Limitation:
5% opacity, except for 6 minutes in any continuous 60 minute period during which opacity shall not exceed 10%
- Applicable Compliance Method:
Compliance shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
- o. Emission Limitation:
17.52 TPY of HCl emissions
- Applicable Compliance Method:
Compliance with the annual limitation shall be assumed as long as compliance with the emission limitation in section A.I.1. is maintained (the annual limitation was established by multiplying the emission limitation established in PTI No.13-1887 (4 lbs HCl/hr) by the potential operating hours of 8760/yr, and then dividing by 2000 lbs/ton).
- p. Emission Limitation:
2.32 TPY of PE
- Applicable Compliance Method:
Applicable Compliance Method:
Compliance with the annual limitation shall be assumed as long as compliance with the emission limitation in section A.I.1. is maintained (the annual limitation was established by multiplying the emission limitation established in PTI No.13-1887 (0.1 lb PE/100 lbs charged) by the maximum charge rate of 530 lbs/hr and the potential operating hours of 8760/yr, and then dividing by 2000 lbs/ton).
2. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted on an annual basis (no more than 12 months following the previous performance test) as outlined in 40 CFR Part 62.14451(b)(2).
- b. The emission testing shall be conducted to demonstrate compliance for PE, visible PE, CO, D/F, HCl, Pb, Cd, Hg, As, Be, Cr, and Ni. All performance tests must consist of a minimum of three runs under representative operating conditions. The minimum sample time must be 1 hour per test run unless otherwise indicated.
- c. The following test method(s) shall be employed to determine sampling location and gas composition analysis: Method 1,3,3A, or 3B of 40 CFR Part 60, Appendix A.
- d. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for PE: Methods 1 through 4 and 5 or 29 of 40 CFR Part 60, Appendix A.
- e. The following test method shall be employed to demonstrate compliance with the visible PE limitation: Method 9 of 40 CFR Part 60, Appendix A.
- f. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): for CO, Methods 1 through 4 and 10 or 10B of 40 CFR Part 60, Appendix A.
- g. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate(s): for D/F, Methods 1 through 4 and 23 of 40 CFR Part 60, Appendix A. The minimum sample time must be 4 hours per test run. If the permittee selected the toxic equivalency standards of D/F under 40 CFR Part 62.14411, the procedure in 40 CFR Part 62.14452(i) must be followed.
- h. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): for HCl, Methods 1 through 4 and 26 or 26A of 40 CFR Part 60, Appendix A. If the permittee selected the percentage reduction standard for HCl under 40 CFR Part 62.14411, the procedure in 40 CFR Part 62.14452(j) must be followed.
- i. The following test methods shall be employed to demonstrate compliance with the allowable mass

emission rate(s): for Pb, Cd, Hg, As, Be, Cr, and Ni, Methods 1 through 4 and 29 of 40 CFR Part 60, Appendix A. If the permittee selected the percentage reduction standard for HCl under 40 CFR Part 62.14411, the procedure in 40 CFR Part 62.14452(k) must be followed.

- j. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality. The maximum charge rate is defined in 40 CFR part 62.14490.
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland Division of Air Quality. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date (s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Division of Air Quality's refusal to accept the results of the emission test(s). Personnel from the Cleveland Division of Air Quality 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 emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Division of Air Quality within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Division of Air Quality.
4. Initial performance testing was conducted for this emissions unit in 10/2001, and the test results showed compliance with the PE, visible PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, and Ni emission limitations. Since the initial performance testing did not demonstrate compliance with the D/F emission limitation, the permittee must conduct testing for D/F emissions within 3 months after the issuance of this permit.

[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 Ohio EPA is currently working on revisions to OAC Chapter 3745-75. When these revisions are approved and become effective, the permittee shall apply for a revision to its Title V permit in order to meet the new requirements of OAC Chapter 3745-75.

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

Facility ID: 1318394002 Issuance type: Title V Final Permit

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

Facility ID: 1318394002 Emissions Unit ID: N002 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

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

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

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