Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

4/20/2016

Certified Mail

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

CARL WEAVER
C.R.W.
P.O. BOX 80233
CANTON, OH 44708

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1576051580
Permit Number: P0101295
Permit Type: Renewal
County: Stark

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Canton City Health Department at (330)489-3385 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: Canton

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
C.R.W.

Facility ID:	1576051580
Permit Number:	P0101295
Permit Type:	Renewal
Issued:	4/20/2016
Effective:	4/20/2016
Expiration:	2/25/2023

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
C.R.W.

Table of Contents

Authorization 1

A. Standard Terms and Conditions 3

1. What does this permit-to-install and operate ("PTIO") allow me to do? 4
2. Who is responsible for complying with this permit? 4
3. What records must I keep under this permit? 4
4. What are my permit fees and when do I pay them? 4
5. When does my PTIO expire, and when do I need to submit my renewal application? 4
6. What happens to this permit if my project is delayed or I do not install or modify my source? 5
7. What reports must I submit under this permit? 5
8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit? 5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? 5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report? 6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located? 6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently? 6
13. Can I transfer this permit to a new owner or operator? 7
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"? 7
15. What happens if a portion of this permit is determined to be invalid? 7

B. Facility-Wide Terms and Conditions 8

C. Emissions Unit Terms and Conditions 10

1. N001, Human Cremator Unit #1 11
2. N002, Human Cremator Unit #2 17
3. N003, Pet Retort (Animal Cremator) - ISI Model 27 23

Authorization

Facility ID: 1576051580
Application Number(s): A0011744, A0033079
Permit Number: P0101295
Permit Description: PTIO renewal permit for emissions units N001, N002, and N003 which are human or pet cremators with afterburners (permit also serves as the first operating permit for N003).
Permit Type: Renewal
Permit Fee: $0.00
Issue Date: 4/20/2016
Effective Date: 4/20/2016
Expiration Date: 2/25/2023
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

C.R.W.
4225 16TH ST SW
Canton, OH 44710

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Canton City Health Department
420 Market Avenue
Canton, OH 44702-1544
(330)489-3385

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s))listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director

Authorization (continued)

Permit Number: P0101295
Permit Description: PTIO renewal permit for emissions units N001, N002, and N003 which are human or pet cremators with afterburners (permit also serves as the first operating permit for N003).

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**N001**
Company Equipment ID:	Human Cremator Unit #1
Superseded Permit Number:	15-367
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**N002**
Company Equipment ID:	Human Cremator Unit #2
Superseded Permit Number:	15-1168
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**N003**
Company Equipment ID:	Pet Retort (Animal Cremator) - ISI Model 27
Superseded Permit Number:	15-01530
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

  You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as beingpermanently shut down without first applying for and obtaining a permit pursuantto OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) None.

C. Emissions Unit Terms and Conditions

1. N001, Human Cremator Unit #1

Operations, Property and/or Equipment Description:

100 lb/hr natural gas fired multiple chamber human cremator, ALL Cremator Model L-1701, with 0.7 mmBtu/hr primary burner and 1.4 mmBtu/hr afterburner.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) [Best Available Technology (BAT) established in PTI 15-367]	Particular emissions (PE) shall not exceed 0.275 tons per year. See b)(2)a. and b)(2)b.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-09(B)	PE shall not exceed 0.10 pounds (lbs) per 100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator.
d.	OAC rule 3745-17-09(C)	See b)(2)c.
e.	OAC rule 3745-18-06(E)	See b)(2)d.

(2) Additional Terms and Conditions

a. Best Available Technology (BAT) requirements for this emissions unit have been determined to be use of an afterburner and compliance with the terms and conditions of this permit.

b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-17-09(B), and OAC rule 3745-17-09(C).

c. This emissions unit and all associated equipment and grounds, shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

d. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C) because the process weight rate of this emissions unit is equal to or less than 1,000 pounds per hour.

c) Operational Restrictions

(1) The average hourly charge rate shall not exceed 100 pounds of material per hour, based upon the time needed to complete cremation of the charge amount.

(2) This emissions unit must be equipped with an afterburner that shall be used at all times this emissions unit is in operation.

(3) The permittee shall install, operate and properly maintain a temperature gauge which monitors the temperature of the afterburner.

(4) The cremator shall not be operated unless the temperature monitoring devices are operating properly.

(5) This emissions unit shall be installed, operated and maintained in accordance with the manufacturer's specifications. This includes but is not limited to:

a. during start-up, the temperature controller for the afterburner shall be set to at least the minimum temperature recommended by the manufacturer, but not less than 1400 degrees Fahrenheit; and

b. for the first cremation of the day, or for subsequent cremations after the unit has entered or completed the cool-down state, the afterburner temperature must reach the minimum temperature recommended by the manufacturer as measured by the afterburner indicator, before ignition of the primary burner to start the cremation.

(6) This emissions unit shall be operated only by properly trained personnel. A copy of all the training records for each operator shall be maintained on file as long as that operator is employed for that job and shall be immediately available to the appropriate Ohio EPA District Office or local air agency upon request.

(7) Ashes shall be removed from the primary chamber on a daily basis.

(8) To the extent possible, non-combustible material shall be removed from the material charged into this emissions unit.

(9) This emissions unit shall not be used to dispose of any "medical or infection waste," as defined in OAC rule 3745-75-01.

(10) The stack shall be designed to minimize any building down wash impacts from emissions and/or odors on employees and nearby residences. The design shall meet good engineering practices so as not to result in excessive concentrations of air contaminants and/or odors in locations at, near or in such a configuration, as to affect any air intake for heating and cooling of buildings or at operable windows or doors.

(11) The permittee shall burn only natural gas in this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks*, when the emissions unit is in operation and when 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 action taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d)(1)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit.) with respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

*In lieu of daily visible emission checks, the permittee may install an opacity alarm system on this emissions unit. The opacity alarm system shall be installed, operated, and maintained in accordance with the manufacturers' specifications and an operations log shall be maintained consistent with the above requirements.

(2) The permittee shall maintain daily records of the following information for this emissions unit:

a. for each cremation, the temperature of the afterburner must be recorded just prior to the primary burner ignition;

b. the weight of each charge;

c. the time of each charge; and

d. a log of the time and date the ash is removed from the cremator.

(3) The permittee shall inspect this cremator using preventative maintenance procedures recommended by the equipment manufacturer. The inspection should be done at least semi-annually (more often if recommended by the equipment manufacturer.) Each inspection shall include a written log which documents the findings of the inspection and identifies any needed cleaning or repairs to both the primary burner and afterburner chambers. If cleaning or repairs are needed, the cremator shall not be operated if the operation would result in any exceedance of the emission limits detailed in this permit.

(4) Copies of contractors' invoices of maintenance and repairs shall be maintained on site for no less than five (5) years.

(5) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

e) Reporting Requirements

(1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.

(2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

(3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

a. all days during which any visible particulate emissions were observed from the stack serving this unit; and

b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

(4) The above information shall be provided as an attachment to the PER. If there are no day(s) and/or corrective action(s) to identify as required above, the permittee shall

indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

PE shall not exceed 0.275 tons per year.

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the manufacturer supplied emission factor in pounds per hour (0.0627) by the maximum operating schedule of 8760 hours/yr, and applying the conversion factor of 2000 lbs/ton, as shown below.

$$0.0627\frac{\text{lbsPE}}{\text{hr}} \times 8760\frac{\text{hr}}{\text{yr}} \times \frac{1\text{ ton}}{2000\text{ lbs}} = 0.275\frac{\text{tonsPE}}{\text{yr}}$$

If required the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(8). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

b. Emission Limitation:

Particulate emissions shall not exceed 0.10 pound per 100 pounds of liquid, semi-solid or solid refuse and salvageable material charged.

Applicable Compliance Method:

If required, compliance with the emission limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(8).

c. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule

Applicable Compliance Method:

If required, compliance with the applicable visible particulate emissions limitation identified above shall be demonstrated based upon visible emissions observations performed according to Method 9 in Appendix A of 40 CFR Part 60.

g) Miscellaneous Requirements

(1) In accordance with ORC section 4717.13(A)(9), the permittee shall not cremate animals in a cremation chamber in which dead human bodies or body parts are cremated and the permittee shall not cremate dead human bodies or human body parts in a cremation chamber in which dead animals are cremated.

2. N002, Human Cremator Unit #2

Operations, Property and/or Equipment Description:

100 lb/hr natural gas fired multiple chamber human cremator, ALL Cremator Model L-1801, with 0.6 mmBtu/hr primary burner and 1.2 mmBtu/hr afterburner.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) [Best Available Technology (BAT) established in PTI 15-1168]	Particular emissions (PE) shall not exceed 0.10 pounds per hour and 0.438 tons per year. Visible particulate emissions from the stack serving this emissions unit shall not exceed 5 percent opacity as a three-minute average. See b)(2)a. and b)(2)b.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-09(B)	PE shall not exceed 0.10 pounds (lbs) per 100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-09(C)	See b)(2)c.
e.	OAC rule 3745-18-06(E)	See b)(2)d.

(2) Additional Terms and Conditions

a. Best Available Technology (BAT) requirements for this emissions unit have been determined to be use of an afterburner and compliance with the terms and conditions of this permit.

b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-17-09(B), and OAC rule 3745-17-09(C).

c. This emissions unit and all associated equipment and grounds, shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

d. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C) because the process weight rate of this emissions unit is equal to or less than 1,000 pounds per hour.

c) Operational Restrictions

(1) The average hourly charge rate shall not exceed 100 pounds of material per hour, based upon the time needed to complete cremation of the charge amount.

(2) This emissions unit must be equipped with an afterburner that shall be used at all times this emissions unit is in operation.

(3) The permittee shall install, operate and properly maintain a temperature gauge which monitors the temperature of the afterburner.

(4) The cremator shall not be operated unless the temperature monitoring devices are operating properly.

(5) This emissions unit shall be installed, operated and maintained in accordance with the manufacturer's specifications. This includes but is not limited to:

a. during start-up, the temperature controller for the afterburner shall be set to at least the minimum temperature recommended by the manufacturer, but not less than 1600 degrees Fahrenheit; and

b. for the first cremation of the day, or for subsequent cremations after the unit has entered or completed the cool-down state, the afterburner temperature must reach the minimum temperature recommended by the manufacturer as measured by the afterburner indicator, before ignition of the primary burner to start the cremation.

(6) This emissions unit shall be operated only by properly trained personnel. A copy of all the training records for each operator shall be maintained on file as long as that operator is employed for that job and shall be immediately available to the appropriate Ohio EPA District Office or local air agency upon request.

(7) Ashes shall be removed from the primary chamber on a daily basis.

(8) To the extent possible, non-combustible material shall be removed from the material charged into this emissions unit.

(9) This emissions unit shall not be used to dispose of any "medical or infection waste," as defined in OAC rule 3745-75-01.

(10) The stack shall be designed to minimize any building down wash impacts from emissions and/or odors on employees and nearby residences and with a minimum height of 16 feet above the ground. The design shall meet good engineering practices so as not to result in excessive concentrations of air contaminants and/or odors in locations at, near or in such a configuration, as to affect any air intake for heating and cooling of buildings or at operable windows or doors.

(11) The permittee shall burn only natural gas in this emissions unit.

(12) No fiberglass or plastic caskets shall be burnt.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks*, when the emissions unit is in operation and when 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 action taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d)(1)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit.) with respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were

taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

*In lieu of daily visible emission checks, the permittee may install an opacity alarm system on this emissions unit. The opacity alarm system shall be installed, operated, and maintained in accordance with the manufacturers' specifications and an operations log shall be maintained consistent with the above requirements.

(2) The permittee shall maintain daily records of the following information for this emissions unit:

a. for each cremation, the temperature of the afterburner must be recorded just prior to the primary burner ignition;

b. the weight of each charge;

c. the time of each charge; and

d. a log of the time and date the ash is removed from the cremator.

(3) The permittee shall inspect this cremator using preventative maintenance procedures recommended by the equipment manufacturer. The inspection should be done at least semi-annually (more often if recommended by the equipment manufacturer.) Each inspection shall include a written log which documents the findings of the inspection and identifies any needed cleaning or repairs to both the primary burner and afterburner chambers. If cleaning or repairs are needed, the cremator shall not be operated if the operation would result in any exceedance of the emission limits detailed in this permit.

(4) Copies of contractors' invoices of maintenance and repairs shall be maintained on site for no less than five (5) years.

(5) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

(6) For each day during which the permittee burns a fiberglass or plastic casket, the permittee shall maintain a record of the type and quantity of caskets burned in this emissions unit.

e) Reporting Requirements

(1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.

(2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

(3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

a. all days during which any visible particulate emissions were observed from the stack serving this unit; and

b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

(4) The above information shall be provided as an attachment to the PER. If there are no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

PE shall not exceed 0.10 pounds per hour and 0.438 tons per year.

<u>Applicable Compliance Method:</u>

The hourly emission limitation was established to reflect the potential to emit for this emissions unit. This emission limitation was developed based on the OAC rule 3745-17-09(B) PE limitation (0.10 pound/100 pounds of liquid, semi-solid or solid refuse and salvageable material charged) multiplied by the maximum average hourly charge rate (100 lbs/hr).

If required the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(8). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum operating schedule of 8760 hours/yr, and applying the conversion factor of 2000 lbs/ton. Therefore, provided compliance is demonstrated with the hourly emission limitation compliance with the annual emission limitation shall also be demonstrated..

b. <u>Emission Limitation:</u>

Particulate emissions shall not exceed 0.10 pound per 100 pounds of liquid, semi-solid or solid refuse and salvageable material charged.

Applicable Compliance Method:

If required, compliance with the emission limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(8).

c. Emission Limitation:

Visible PE shall not exceed 5% opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance with the applicable visible particulate emissions limitation identified above shall be demonstrated based upon visible emissions observations performed according to Method 9 in Appendix A of 40 CFR Part 60.

g) Miscellaneous Requirements

(1) In accordance with ORC section 4717.13(A)(9), the permittee shall not cremate animals in a cremation chamber in which dead human bodies or body parts are cremated and the permittee shall not cremate dead human bodies or human body parts in a cremation chamber in which dead animals are cremated.

3. N003, Pet Retort (Animal Cremator) - ISI Model 27

Operations, Property and/or Equipment Description:

75 lb/hr natural gas fired multiple chamber animal cremator, ISI Model 27, with 0.8 mmBtu/hr primary burner and 1.2 mmBtu/hr afterburner.

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) [Best Available Technology (BAT) established in PTI 15-1168]	Particular emissions (PE) shall not exceed 0.15 pounds per hour and 0.66 tons per year. Visible particulate emissions from the stack serving this emissions unit shall not exceed 5 percent opacity except for 6 minutes in any continuous 60-minute period during which opacity shall not exceed 10 percent opacity. See b)(2)a. and b)(2)b.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-09(B)	PE shall not exceed 0.20 pounds (lbs) per 100 lbs of liquid, semi-solid or solid refuse and salvageable material charged to the incinerator.
d.	OAC rule 3745-17-09(C)	See b)(2)c.
e.	OAC rule 3745-18-06(E)	See b)(2)d.

(2) Additional Terms and Conditions

a. Best Available Technology (BAT) requirements for this emissions unit have been determined to be use of an afterburner and compliance with the terms and conditions of this permit.

b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-17-09(B), and OAC rule 3745-17-09(C).

c. This emissions unit and all associated equipment and grounds, shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

d. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C) because the process weight rate of this emissions unit is equal to or less than 1,000 pounds per hour.

c) Operational Restrictions

(1) The average hourly charge rate shall not exceed 75 pounds of material per hour, based upon the time needed to complete cremation of the charge amount.

(2) This cremation unit shall be equipped with an afterburner designed to achieve at least 1.0 second retention time in the secondary chamber. The afterburner shall be used at all times this cremation unit is in operation.

(3) The permittee shall install, operate and properly maintain a temperature gauge which monitors the temperature of the afterburner.

(4) The cremator shall not be operated unless the temperature monitoring devices are operating properly.

(5) This emissions unit shall be installed, operated and maintained in accordance with the manufacturer's specifications. This includes but is not limited to:

a. during start-up, the temperature controller for the afterburner shall be set to at least the minimum temperature recommended by the manufacturer, but not less than 1450 degrees Fahrenheit; and

b. for the first cremation of the day, or for subsequent cremations after the unit has entered or completed the cool-down state, the afterburner temperature must reach the minimum temperature recommended by the manufacturer as measured by the afterburner indicator, before ignition of the primary burner to start the cremation.

(6) This emissions unit shall be operated only by properly trained personnel. A copy of all the training records for each operator shall be maintained on file as long as that operator is employed for that job and shall be immediately available to the appropriate Ohio EPA District Office or local air agency upon request.

(7) Ashes shall be removed from the primary chamber on a daily basis.

(8) To the extent possible, non-combustible material shall be removed from the material charged into this emissions unit.

(9) This emissions unit shall not be used to dispose of any “medical or infection waste,” as defined in OAC rule 3745-75-01.

(10) The stack shall be designed to minimize any building down wash impacts from emissions and/or odors on employees and nearby residences. The design shall meet good engineering practices so as not to result in excessive concentrations of air contaminants and/or odors in locations at, near or in such a configuration, as to affect any air intake for heating and cooling of buildings or at operable windows or doors.

(11) The permittee shall burn only natural gas in this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks*, when the emissions unit is in operation and when 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 action taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d)(1)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the

emissions unit.) with respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

*In lieu of daily visible emission checks, the permittee may install an opacity alarm system on this emissions unit. The opacity alarm system shall be installed, operated, and maintained in accordance with the manufacturers' specifications and an operations log shall be maintained consistent with the above requirements.

(2) The permittee shall maintain daily records of the following information for this emissions unit:

a. for each cremation, the temperature of the afterburner must be recorded just prior to the primary burner ignition;

b. the weight of each charge;

c. the time of each charge; and

d. a log of the time and date the ash is removed from the cremator.

(3) The permittee shall inspect this cremator using preventative maintenance procedures recommended by the equipment manufacturer. The inspection should be done at least semi-annually (more often if recommended by the equipment manufacturer.) Each inspection shall include a written log which documents the findings of the inspection and identifies any needed cleaning or repairs to both the primary burner and afterburner chambers. If cleaning or repairs are needed, the cremator shall not be operated if the operation would result in any exceedance of the emission limits detailed in this permit.

(4) Copies of contractors' invoices of maintenance and repairs shall be maintained on site for no less than five (5) years.

(5) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

e) Reporting Requirements

(1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.

(2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

(3) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

a. all days during which any visible particulate emissions were observed from the stack serving this unit; and

b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

(4) The above information shall be provided as an attachment to the PER. If there are no day(s) and/or corrective action(s) to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

PE shall not exceed 0.15 pounds per hour and 0.66 tons per year.

<u>Applicable Compliance Method:</u>

The hourly emission limitation was established to reflect the potential to emit for this emissions unit. This emission limitation was developed based on the OAC rule 3745-17-09(B) PE limitation (0.20 pound/100 pounds of liquid, semi-solid or solid refuse and salvageable material charged) multiplied by the maximum average hourly charge rate (100 lbs/hr).

If required the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A, using the methods and procedures specified in OAC rule 3745-17-03(B)(8). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

The annual emission limitation was developed by multiplying the hourly emission limitation by the maximum operating schedule of 8760 hours/yr, and applying the conversion factor of 2000 lbs/ton. Therefore, provided compliance is demonstrated with the hourly emission limitation compliance with the annual emission limitation shall also be demonstrated.

b. <u>Emission Limitation:</u>

Particulate emissions shall not exceed 0.20 pound per 100 pounds of liquid, semi-solid or solid refuse and salvageable material charged.

Applicable Compliance Method:

If required, compliance with the emission limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(8).

c. Emission Limitation:

Visible PE shall not exceed 5% opacity except for 6 minutes in any continuous 60-minute period during which opacity shall not exceed 10% opacity.

Applicable Compliance Method:

If required, compliance with the applicable visible particulate emissions limitation identified above shall be demonstrated based upon visible emissions observations performed according to Method 9 in Appendix A of 40 CFR Part 60.

g) Miscellaneous Requirements

(1) In accordance with ORC section 4717.13(A)(9), the permittee shall not cremate animals in a cremation chamber in which dead human bodies or body parts are cremated and the permittee shall not cremate dead human bodies or human body parts in a cremation chamber in which dead animals are cremated.