



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
CLERMONT COUNTY**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 14-05080**

**DATE: 2/6/2001**

Craver Riggs Funeral Home  
Howard Riggs  
529 Main Street  
Milford, OH 45150

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA  
Dr. Janet Rickabaugh Clermont County General  
Health District

HCDES



**Permit To Install  
Terms and Conditions**

**Issue Date: 2/6/2001  
Effective Date: 2/6/2001**

**FINAL PERMIT TO INSTALL 14-05080**

Application Number: 14-05080  
APS Premise Number: 1413080444  
Permit Fee: **\$500**  
Name of Facility: Craver Riggs Funeral Home  
Person to Contact: Howard Riggs  
Address: 529 Main Street  
Milford, OH 45150

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**529 Main Street  
Milford, Ohio**

Description of proposed emissions unit(s):  
**One incinerator for human remains and one incinerator for animal remains.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

Craver Riggs Funeral Home  
 PTI Application: 14-05080  
 Issued: 2/6/2001

Facility ID: 1413080444

#### 14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### 15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM/PM10	1.10
NOx	3.76
CO	2.46
OC	0.08
SO2	1.06

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

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

1. The specific operations(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 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>
N001 - 150 pounds/hour incinerator with secondary combustion chamber used for the cremation of human remains	OAC rule 3745-31-05(A)(3)	0.15 lb/hr and 0.66 TPY PM/PM10 0.43 lb/hr and 1.88 TPY NO <sub>x</sub> 0.28 lb/hr and 1.23 TPY CO 0.01 lb/hr and 0.04 TPY OC 0.12 lb/hr and 0.53 TPY SO <sub>2</sub>
		Visible particulate emissions from the stack shall not exceed 5% opacity as a six-minute average except for one six-minute period in any continuous sixty-minute period during which the opacity shall not exceed 10% as a six-minute average.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-09(B) and 3745-17-09(C).
	OAC rule 3745-17-09(B)	0.10 pound PM/100 pounds material charged
	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 3745-31-05(A)(3).
	OAC rule 3745-17-09(C)	See term A.2.c.

8

**Crave**

**PTI A**

**Issued: 2/6/2001**

Emissions Unit ID: **N001**

## **2. Additional Terms and Conditions**

- 2.a** The hourly and annual emission limitations outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.b** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by maintaining a secondary combustion chamber temperature at 1600 degrees Fahrenheit or greater during operation of the incinerator and meeting the specified emission rates.
- 2.c** Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

## **B. Operational Restrictions**

- 1. The secondary combustion chamber temperature shall be maintained at 1600 degrees Fahrenheit or greater during each cremation cycle.
- 2. The type of waste to be burned in this emissions unit shall be limited to type zero and four waste (pathological waste).
- 3. Proper operating procedures shall be employed at all times during the operation of this emissions unit. These procedures shall include a pre-heating cycle as specified by the manufacturer, or an equivalent pre-heating system. The preheated temperature for the secondary combustion chamber of the crematorium shall be at least 1600 degrees Fahrenheit.

## **C. Monitoring and/or Recordkeeping Requirements**

- 1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the secondary combustion chamber temperature, in degrees Fahrenheit, during each cremation cycle. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. The monitoring and recording devices shall be capable of accurately measuring the desired parameter.
- 2. The permittee shall maintain a log of all periods of time when the emissions unit is in operation and the secondary combustion chamber temperature was less than 1600 degrees Fahrenheit.

## **D. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of all periods of time during which the secondary combustion chamber temperature was below 1600 degrees Fahrenheit during operation of this emissions unit. The notification shall include a copy of such record, including any corrective action(s) taken, and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

#### **E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
0.10 pound PM/100 pounds of material charged  
  
Applicable Compliance Method:  
If required compliance with this mass emission limitation shall be based upon stack testing conducted using Method 5 from 40 CFR Part 60.
  - b. Emission Limitation:  
0.15 lb/hr and 0.66 TPY PM/PM10  
  
Applicable Compliance Method:  
The 0.15 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.66 TPY limitation was developed by multiplying the 0.15 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
  - c. Emission Limitation:  
0.43 lb/hr and 1.88 TPY NO<sub>x</sub>  
  
Applicable Compliance Method:  
The 0.43 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 1.88 TPY limitation was developed by multiplying the 0.43 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**Craver Riggs Funeral Home**  
**PTI Application: 14-05080**  
**Issued**

**Facility ID: 1413080444**

**Emissions Unit ID: N001**

- d. Emission Limitation:  
0.28 lb/hr and 1.23 TPY CO

**Applicable Compliance Method:**

The 0.28 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 1.23 TPY limitation was developed by multiplying the 0.28 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- e. Emission Limitation:  
0.01 lb/hr and 0.04 TPY OC

Applicable Compliance Method:

The 0.01 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.04 TPY limitation was developed by multiplying the 0.01 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- f. Emission Limitation:  
0.12 lb/hr and 0.53 TPY SO<sub>2</sub>

Applicable Compliance Method:

The 0.12 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.53 TPY limitation was developed by multiplying the 0.12 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- g. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
- h. Compliance with the secondary combustion chamber minimum temperature requirement shall be demonstrated by the recordkeeping requirements specified in sections C.1. and C.2.
2. The permittee shall conduct, or have conducted, an one hour visible particulate emissions test for this emissions unit in accordance with the following requirements:
- the visible particulate emissions test shall be conducted within 6 months after issuance of this permit;
  - the visible particulate emissions test shall be conducted to demonstrate compliance with the visible particulate limitation outlined in this permit;
  - the following test method(s) shall be employed to demonstrate compliance with the visible particulate limitation: Method 9 as outlined in 40 CFR Part 60, Appendix A;

- d. the Method 9 test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services;
- e. the visible particulate emissions test shall be conducted by a certified visible emissions evaluator who has met the specifications of Method 9 outlined in 40 CFR Part 60, Appendix A; and
- f. if the Method 9 test fails to demonstrate compliance with the visible particulate limitation outlined in this permit, then stack testing shall be conducted using Method 5 from 40 CFR Part 60 to demonstrate compliance with the limit of 0.10 pound PM/100 pounds material charged.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

A comprehensive written report on the results of the visible particulate emissions test shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services. This report shall contain the following:

- a. a copy of the visible emissions evaluation form; and
- b. a copy of the visible emissions evaluator certification.

#### **F. Miscellaneous Requirements**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

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

- 1. The specific operations(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 specified in narrative form following the table.

Operations, Property, and/or Equipment	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-09(C)
N002 - 100 pounds/hour incinerator with secondary combustion chamber used for the cremation of animal remains	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-09(B)	
	OAC rule 3745-17-07(A)	

Applicable Emissions  
Limitations/Control Measures

0.10 lb/hr and 0.44 TPY PM/PM10  
0.43 lb/hr and 1.88 TPY NO<sub>x</sub>  
0.28 lb/hr and 1.23 TPY CO  
0.01 lb/hr and 0.04 TPY OC  
0.12 lb/hr and 0.53 TPY SO<sub>2</sub>

Visible particulate emissions from the stack shall not exceed 5% opacity as a six-minute average except for one six-minute period in any continuous sixty-minute period during which the opacity shall not exceed 10% as a six-minute average.

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

0.10 pound PM/100 pounds material charged

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See term A.2.c.

## 2. Additional Terms and Conditions

**2.a** The hourly and annual emission limitations outlined above are based on the emissions

unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

- 2.b** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by maintaining a secondary combustion chamber temperature at 1600 degrees Fahrenheit or greater during operation of the incinerator and meeting the specified emission rates.
- 2.c** Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

## **B. Operational Restrictions**

1. The secondary combustion chamber temperature shall be maintained at 1600 degrees Fahrenheit or greater during each cremation cycle.
2. The type of waste to be burned in this emissions unit shall be limited to type zero and four waste (pathological waste).
3. Proper operating procedures shall be employed at all times during the operation of this emissions unit. These procedures shall include a pre-heating cycle as specified by the manufacturer, or an equivalent pre-heating system. The preheated temperature for the secondary combustion chamber of the crematorium shall be at least 1600 degrees Fahrenheit.

## **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the secondary combustion chamber temperature, in degrees Fahrenheit, during each cremation cycle. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee. The monitoring and recording devices shall be capable of accurately measuring the desired parameter.
2. The permittee shall maintain a log of all periods of time when the emissions unit is in operation and the secondary combustion chamber temperature was less than 1600 degrees Fahrenheit.

## **D. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of all periods of time during which the secondary combustion chamber temperature was below 1600 degrees Fahrenheit during operation of this emissions unit. The

Emissions Unit ID: **N002**

notification shall include a copy of such record, including any corrective action(s) taken, and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

## **E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:  
0.10 pound PM/100 pounds of material charged

Applicable Compliance Method:

If required compliance with this mass emission limitation shall be based upon stack testing conducted using Method 5 from 40 CFR Part 60.

- b. Emission Limitation:  
0.10 lb/hr and 0.44 TPY PM/PM10

Applicable Compliance Method:

The 0.10 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.44 TPY limitation was developed by multiplying the 0.10 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation:  
0.43 lb/hr and 1.88 TPY NO<sub>x</sub>

Applicable Compliance Method:

The 0.43 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 1.88 TPY limitation was developed by multiplying the 0.43 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- d. Emission Limitation:  
0.28 lb/hr and 1.23 TPY CO

Applicable Compliance Method:

The 0.28 lb/hr emission limitation is based on stack test information submitted by the

permittee in the PTI application. The 1.23 TPY limitation was developed by multiplying the 0.28 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- e. Emission Limitation:  
0.01 lb/hr and 0.04 TPY OC

Applicable Compliance Method:

The 0.01 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.04 TPY limitation was developed by multiplying the 0.01 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- f. Emission Limitation:  
0.12 lb/hr and 0.53 TPY SO<sub>2</sub>

Applicable Compliance Method:

The 0.12 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.53 TPY limitation was developed by multiplying the 0.12 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- g. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
- h. Compliance with the secondary combustion chamber minimum temperature requirement shall be demonstrated by the recordkeeping requirements specified in sections C.1. and C.2.
2. The permittee shall conduct, or have conducted, an one hour visible particulate emissions test for this emissions unit in accordance with the following requirements:
- the visible particulate emissions test shall be conducted within 6 months after issuance of this permit;
  - the visible particulate emissions test shall be conducted to demonstrate compliance with

the visible particulate limitation outlined in this permit;

- c. the following test method(s) shall be employed to demonstrate compliance with the visible particulate limitation: Method 9 as outlined in 40 CFR Part 60, Appendix A;
- d. the Method 9 test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services;
- e. the visible particulate emissions test shall be conducted by a certified visible emissions evaluator who has met the specifications of Method 9 outlined in 40 CFR Part 60, Appendix A; and
- f. if the Method 9 test fails to demonstrate compliance with the visible particulate limitation outlined in this permit, then stack testing shall be conducted using Method 5 from 40 CFR Part 60 to demonstrate compliance with the limit of 0.10 pound PM/100 pounds material charged.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

A comprehensive written report on the results of the visible particulate emissions test shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services. This report shall contain the following:

- a. a copy of the visible emissions evaluation form; and
- b. a copy of the visible emissions evaluator certification.

## **F. Miscellaneous Requirements**

None

20

**Crave**

**PTI A**

**Issued: 2/6/2001**

Emissions Unit ID: **N002**

**NEW SOURCE REVIEW FORM B**

PTI Number: 14-05080 Facility ID: 1413080444

FACILITY NAME Craver Riggs Funeral Home

FACILITY DESCRIPTION One incinerator for human remains and one incinerator for animal remains CITY/TWP Milford

SIC CODE 7261 SCC CODE 5-01-005-05 EMISSIONS UNIT ID N001

EMISSIONS UNIT DESCRIPTION Incinerator with secondary combustion chamber used for the cremation of human remains

DATE INSTALLED 12/98

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.15 lb/hr	0.015 TPY	0.15 lb/hr	0.66 TPY
PM <sub>10</sub>	attainment	0.15 lb/hr	0.015 TPY	0.15 lb/hr	0.66 lb/hr
Sulfur Dioxide	attainment	0.12 lb/hr	0.12 TPY	0.12 lb/hr	0.53 lb/hr
Organic Compounds	attainment	0.01 lb/hr	0.01 TPY	0.01 lb/hr	0.04 TPY
Nitrogen Oxides	attainment	0.43 lb/hr	0.43 TPY	0.43 lb/hr	1.88 TPY
Carbon Monoxide	attainment	0.28 lb/hr	0.28 TPY	0.28 lb/hr	1.23 TPY
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by maintaining a secondary combustion chamber temperature at 1600 degrees Fahrenheit or greater during operation of the incinerator and meeting the specified emission rates.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no  
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_



**NEW SOURCE REVIEW FORM B**

PTI Number: 14-05080

Facility ID: 1413080444

FACILITY NAME Craver Riggs Funeral Home

FACILITY DESCRIPTION One incinerator for human remains and one CITY/TWP Milford

Emissions Unit ID: **N002**

**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to [airpti@epa.state.oh.us](mailto:airpti@epa.state.oh.us)

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	Electronic	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	Hard Copy	None
Calculations (required)	<input type="checkbox"/>	0000000c.wpd	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Modeling form/results	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PTI Application (complete or partial)*	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BAT Study	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other/misc.	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

**NSR Discussion**

PTI 14-05080

Craver Riggs Funeral Home  
529 Main Street  
Milford, Ohio 45150  
1413080444

This PTI is for a 150 pounds/hour capacity incinerator for human remains (N001) and a 100 lbs/hr capacity incinerator for animal remains (N002). The primary combustion chamber of N001 has a total heat input of 0.6 MMBtu/hr and the secondary combustion chamber has a heat input of 1.2 MMBtu/hr. The primary combustion chamber of N002 has a total heat input of 0.5 MMBtu/hr and the secondary combustion chamber has a heat input of 1.0 MMBtu/hr. The incinerators are fired by natural gas.

Emission were determined using stack test data for a similar crematorium (also rated at 150 pounds/hour capacity). Annual emissions are based on a maximum operating schedule of 8760 hours/year. A minimum temperature of 1600 degrees Fahrenheit must be maintained in the secondary combustion chamber during times of operation. This will be monitored on a continuous temperature recorder.

The applicable regulations are OAC rules 3745-31-05(A)(3), 3745-17-07(A), 3745-17-09(B), 3745-17-09(C) and 3745-15-07.

BAT has been determined to be compliance with all applicable rules, compliance with the specified emission rates, and

**NEW SOURCE REVIEW FORM B**

PTI Number: 14-05080

Facility ID: 1413080444

FACILITY NAME Craver Riggs Funeral Home

FACILITY DESCRIPTION One incinerator for human remains and one CITY/TWP Milford

Emissions Unit ID: **N002**

by maintaining a secondary combustion chamber temperature at 1600 degrees Fahrenheit or greater during operation of the incinerator.

A direct final PTI should be issued for these emissions units.

The fee for these emissions units was not doubled since the agency advised the company they did not need a PTI based on the interpretation of the de minimus rule at that time.

Fee = Incinerator at 101-500 lbs/hr = \$400

Incinerator at 0 -100 lbs/hr = \$100

Total Fee = \$500

Prepared by: Tom Wittekind

Date: January 11, 2001

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

**Synthetic Minor Determination and/or**  **Netting Determination**

Permit To Install **ENTER PTI NUMBER HERE**

A. Source Description

B. Facility Emissions and Attainment Status

C. Source Emissions

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

SUMMARY (for informational purposes only)	
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS	
<u>Pollutant</u>	<u>Tons Per Year</u>

25 NEW SC

PTI Num

FACILITY

Emissions Unit ID: **N002** \_\_\_\_\_

FACILITY DESCRIPTION

One incinerator for human remains and one  
incinerator for animal remains

CITY/TWP

Milford

PM/PM10

1.10

NOx

3.76

CO

2.46

OC

0.08

SO2

1.06