



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
FRANKLIN COUNTY**

**CERTIFIED MAIL**

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: 01-08861**

**Fac ID: 0125042311**

**DATE: 11/16/2004**

Pet Cremation Services Inc  
Gary Reynolds  
P O Box 2228  
Columbus, OH 43216

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  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

cc: USEPA

CDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 11/16/2004  
Effective Date: 11/16/2004**

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**FINAL PERMIT TO INSTALL 01-08861**

Application Number: 01-08861  
Facility ID: 0125042311  
Permit Fee: **\$100**  
Name of Facility: Pet Cremation Services Inc  
Person to Contact: Gary Reynolds  
Address: P O Box 2228  
Columbus, OH 43216

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**888 Frank Road West  
Columbus, Ohio**

Description of proposed emissions unit(s):  
**Animal crematory.**

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**

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

**Pet Cremation Services Inc**  
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**Issued: 11/16/2004**

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Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit 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 cannot meet the requirements of this permit 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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**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 ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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**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>
PE	0.9
NOx	6.9
SO2	3.5
VOC	1.3

**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>	OAC rule 3745-17-07(A)
N002 - Animal Crematory, ISI-1600, 200 pounds of remains per hour with an afterburner	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-09(B)&(C)	

Applicable Emissions  
Limitations/Control  
Measures

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

Particulate emissions (PE) shall not exceed 0.20 pound per hour and 0.9 ton per year.

Nitrogen oxide emissions (NOx) shall not exceed 1.6 lbs/hr and 6.9 tons/yr.

Sulfur dioxide emissions (SO2) shall not exceed 0.8 lb/hr and 3.5 tons/yr.

Volatile organic compounds (VOC) shall not exceed 0.3 lb/hr and 1.3 tons/yr.

Visible PE from the afterburner stack shall not exceed 5% opacity, as a 6-minute average.

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

See section A.2.a below.

PE shall not exceed 0.10 pound per 100 pounds of material charged. See A.2.b below.

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

- 2.a** The hourly and annual criteria pollutant emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit as vented to the afterburner. Therefore, the parametric monitoring, record keeping and/or reporting requirements of the afterburner as established in the following terms and conditions will ensure compliance with these emission limitations.
- 2.b** This crematory incinerator, including all associated equipment, stacks and grounds, shall be designed, operated and maintained to prevent the emission of objectionable odors.

## **B. Operational Restrictions**

1. The charge rate shall not exceed 200 pounds of remains per hour.
2. The crematory shall not be charged until the temperature of the secondary combustion chamber reaches 1,600 degrees Fahrenheit. The secondary combustion chamber shall allow for a 1-second (or more) retention time at 1,600 degrees Fahrenheit.
3. Ashes are to be removed from the primary chamber on a daily basis.
4. 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.
5. All material shall be incinerated in a controlled air, multi-chamber incinerator, or equivalent technology as approved by the Director, which provides complete combustion of the remains, excluding metallic items, to carbonized or mineralized ash. Any ash that does not meet this criterion shall be reincinerated.
6. This incinerator 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 available to the Central District Office upon request.
7. The permittee shall not charge this emissions unit with "infectious waste" as defined in OAC rule 3745-75-01(C)(5).
8. The permittee shall not incinerate any packaging material or waste not considered pathological

(type four waste). Plastics are not to be incinerated in the cremator.

9. The permittee shall burn only natural gas in this emissions unit.
10. The incinerator shall not be operated unless the temperature monitoring devices are operating properly.

### **C. Monitoring and/or Record keeping Requirements**

1. A written log shall be kept to record the estimated body and container weights and the cremation time. Alternative arrangements may be approved by the Director provided they can be shown to be of equivalent effectiveness as a method of regulating flow into the incinerator and generating a permanent record of charging rates.
2. The permittee shall operate and maintain a continuous temperature monitor which measures the secondary combustion chamber temperature, in degrees Fahrenheit. The monitor shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations.
3. The permittee shall maintain a log to record the temperature of the secondary combustion chamber in degrees Fahrenheit. The temperature shall be recorded at the start of each combustion cycle (when charge is added to the chamber). The logbook shall be kept on site for a period of 5 years and shall be made available for inspection by the Ohio EPA or its authorized representatives upon request.
4. The permittee shall record each period of downtime for the afterburner and monitoring equipment for each day when the crematory was operated.
5. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE 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. The total duration of any visible emission incident; and
  - c. Any corrective actions taken to eliminate the visible emissions.
6. The permittee shall inspect this incinerator quarterly using preventive maintenance procedures recommended by the equipment manufacturer. Each inspection shall include a written report

identifying any needed repairs to the unit. If repairs are needed, the incinerator shall not be operated if the operation would result in any exceedance of the emission limits detailed in this permit or result in objectionable orders. These repairs shall be completed within 30 days of the inspection. If a time period longer than 30 days is needed to complete the repairs, the Central District Office shall be notified in writing. This notice shall list the repairs needed and the reason(s) the repairs could not be accomplished within the required time period. All inspection and repair reports shall be kept by the permittee for a period of 5 years and shall be made available to the Central District Office upon request.

7. 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.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which provide an identification of all hours of operation during which the charge rate exceeded the incinerator's design capacity, including the actual charge rates for all such hours of operation.
2. The permittee shall submit deviation (excursion) reports within 30 days of when the deviations occur, which provide the following information for each period during which the secondary combustion chamber exhaust gas temperature fell below the applicable limitations:
  - a. The date of the excursion;
  - b. The time interval over which the excursion occurred;
  - c. The temperature values during the excursion;
  - d. The cause(s) for the excursion; and
  - e. The corrective action which has been or will be taken to prevent similar excursions in the future.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. If a time period longer than 30 days is needed to complete the repairs as specified in the

Emissions Unit ID: **N002**

recordkeeping section of this permit, the Central District Office shall be notified in writing. This notice shall list the repairs needed and the reason(s) the repairs could not be accomplished within the required time period.

5. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

## **E. Testing Requirements**

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

- a. Emission Limitation:  
PE shall not exceed 0.20 pound per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum rated capacity of the emissions unit (200 pounds of remains per hour) by the allowable emission rate of 0.10 pound particulate/100 pounds charged.

- b. Emission Limitation:  
PE shall not exceed 0.9 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum rated capacity of the emissions unit (200 pounds of remains per hour) by the allowable emission rate of 0.10 pounds particulate/100 pounds charged. The result (0.2 lb particulate per hour), is then multiplied by the maximum operating schedule of 8760 hours per year, divided by 2,000 pounds per ton.

- c. Emission Limitation:  
NO<sub>x</sub> shall not exceed 1.60 lb/hr.

Applicable Compliance Method:

The emission limitation is based on the average of two stack tests of similar size and adjusted for the heat input of this emissions unit. Compliance shall be demonstrated by multiplying the proposed heat input for this unit (3.5 mmBtu) by the average emission factor of (lb NO<sub>x</sub>/hr)/(mmBtu/hr) of the two tests, i.e., (0.62 lb NO<sub>x</sub>/1.3 mmBtu/hr equals 0.447 and 0.88 lb NO<sub>x</sub>/2.1 mmBtu/hr equals 0.419). Therefore, 3.5mmBtu times (0.476

+ 0.4.19)/2 equals 1.6 lbs NO<sub>x</sub>/hr.

- d. Emission Limitation:  
NO<sub>x</sub> shall not exceed 6.9 tons/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum rated pound per hour limitation of the emissions unit (1.60 pounds of NO<sub>x</sub> per hour) by the maximum operating schedule of 8760 hours per year, divided by 2,000 pounds per ton.

- e. Emission Limitation:  
SO<sub>2</sub> shall not exceed 0.80 lb/hr.

Applicable Compliance Method:

The emission limitation is based on emission factors established in the AIRS Facility Subsystem, March 1990 for criteria pollutants. Compliance shall be demonstrated by multiplying the maximum charge rate per hour of the emissions unit (200 pounds of remains per hour) by the allowable emission rate of 8.0 pound per ton/2000 pounds/ton charged.

- f. Emission Limitation:  
SO<sub>2</sub> shall not exceed 3.5 tons/yr.

Applicable Compliance Method:

The emission limitation is based on emission factors established in the AIRS Facility Subsystem, March 1990 for criteria pollutants. Compliance shall be demonstrated by multiplying the allowable emission rate of 0.80 pound SO<sub>2</sub> emissions per hour by the maximum operating schedule of 8760 hours per year, divided by 2,000 pounds per ton.

- g. Emission Limitation:  
VOC shall not exceed 0.30 lb/hr.

Applicable Compliance Method:

The emission limitation is based on emission factors established in the AIRS Facility Subsystem, March 1990 for criteria pollutants. Compliance shall be demonstrated by multiplying the maximum charge rate per hour of the emissions unit (200 pounds of remains per hour) by the allowable emission rate of 3.0 pound per ton/2000 pounds/ton charged.

- h. Emission Limitation:  
VOC shall not exceed 1.3 tons/yr.

**Applicable Compliance Method:**

The emission limitation is based on emission factors established in the AIRS Facility Subsystem, March 1990 for criteria pollutants. Compliance shall be demonstrated by multiplying the allowable emission rate of 0.30 pound SO<sub>2</sub> emissions per hour by the maximum operating schedule of 8760 hours per year, divided by 2,000 pounds per ton.

- i. **Emission Limitation:**  
PE shall not exceed 0.10 pound/100 pounds of material charged.

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B)(9). Alternative EPA approved test methods may be used with prior approval from the Ohio EPA.

- j. **Emission Limitation:**  
Visible emissions from the stack shall not exceed 5% opacity, as a 6-minute average.

**Applicable Compliance Method:**

If required, compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

**F. Miscellaneous Requirements**

None