



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 NORTH HILTON • BOISE, IDAHO 83706 • (208) 373-0502

JAMES E. RISCH, GOVERNOR
TONI HARDESTY, DIRECTOR

July 27, 2006

Certified Mail No. 7005 1160 0000 1550 5752

Mr. and Mrs. Don Arrhenius
Ada Animal Crematorium
3121 Highway 21
Boise, Idaho 83716

RE: Facility ID No. 001-00200, Ada Animal Crematorium, Boise
Final Permit Letter

Dear Mr. and Mrs. Arrhenius:

The Idaho Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-060012 to the Ada Animal Crematorium, in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho).

This permit is based on your permit application received on March 17, 2006. This permit is effective immediately and replaces PTC No. P-030050, issued on November 28, 2003, the terms and conditions of which shall no longer apply. This permit does not release the Ada Animal Crematorium from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

A representative of the Boise regional office will contact you regarding a meeting with DEQ to discuss the permit terms and requirements. DEQ recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to call Bill Rogers at (208) 373-0437 to address any questions or concerns you may have with the enclosed permit.

Sincerely,

Martin Bauer, Administrator
Air Quality Division

MB/TD/bf

Permit No. P-060012

Enclosures

c: Leonard Herr, Boise Regional Office
 Bill Rogers, Permit Coordinator
 Tracy Drouin, Permit Writer
 Marilyn Seymore/ Pat Rayne, Air Quality Division
 Laurie Kral, US EPA Region 10
 Permit Binder
 Source File
 Phyllis Heitman (Ltr Only)
 Reading File (Ltr Only)



**Air Quality
PERMIT TO CONSTRUCT**
**State of Idaho
Department of Environmental Quality**

PERMIT No.: P-060012
FACILITY ID No.: 001-00200
AQCR: 64 **CLASS:** B
SIC: 7261 **ZONE:** 11
UTM COORDINATE (km): 558.8, 4825.6

1. PERMITTEE
Ada Animal Crematorium

2. PROJECT
Permit to Construct Modification

3. MAILING ADDRESS	CITY	STATE	ZIP
3121 Highway 21	Boise	ID	83716

4. FACILITY CONTACT	TITLE	TELEPHONE
Don and Colleen Arrhenius	Owner/Operator	(208) 392-9618

5. RESPONSIBLE OFFICIAL	TITLE	TELEPHONE
Don and Colleen Arrhenius	Owner/Operator	(208) 392-9618

6. EXACT PLANT LOCATION	COUNTY
7330 Air Way Court, Suite 101, Boise, Idaho	Ada

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS
Incineration of animal remains from local veterinary clinics

8. GENERAL CONDITIONS

This permit is issued according to IDAPA 58.01.01.200, Rules for the Control of Air Pollution in Idaho, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes of design or equipment may require DEQ approval pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200, et seq.

Toni Hardesty

**TONI HARDESTY, DIRECTOR
DEPARTMENT OF ENVIRONMENTAL QUALITY**

DATE ISSUED: July 27, 2006

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Acronyms, Units, and Chemical Nomenclature

AIRS	Aerometric Information Retrieval System
AQCR	Air Quality Control Region
CO	carbon monoxide
DEQ	Department of Environmental Quality
HAPs	hazardous air pollutants
hp	horsepower
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pound per hour
NO_x	nitrogen oxides
PM	particulate matter
PM₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
PTE	potential to emit
SIC	Standard Industrial Classification
SO₂	sulfur dioxide
T/yr	tons per year
UTM	Universal Transverse Mercator
VOC	volatile organic compound

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-060012

Permittee:	Ada Animal Crematorium	Facility ID No. 001-00200	Date Issued:	July 27, 2006
Location:	Boise, Idaho			

1. PERMIT TO CONSTRUCT SCOPE

Purpose

- 1.1 The purpose of this Permit to Construct (PTC) is to modify the facility's existing PTC. Specifically, this modified PTC allows the facility to replace an existing crematory unit with a new unit of larger capacity.
- 1.2 This PTC replaces PTC No. P-030050, issued November 28, 2003, the terms and conditions of which shall no longer apply.

Regulated Sources

- 1.3 Table 1.1 lists all sources of regulated emissions in this PTC.

Table 1.1 SUMMARY OF REGULATED SOURCES

Permit Section	Source Description	Emissions Control(s)
2	Two animal cremation units	afterburners

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2. TWO ANIMAL CREMATION UNITS

2.1 Process Description

The primary purpose of the two animal cremation units is to incinerate animal remains collected from local veterinary clinics.

2.2 Emissions Control Description

A secondary burner (afterburner) in each crematory unit controls VOC emissions.

Table 2.1 VOCs Control

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point
Mathew's Cremation Group, Model Power-Pak II (No. PPII-1 existing)	Afterburner	Cremation unit stack
Mathew's Cremation Group, Model Power-Pak II (No. PPII-2 new)	Afterburner	Cremation unit stack

2.3 Opacity Limit

Emissions from the animal cremation units stacks, or any other stack, vent, or functionally equivalent opening associated with the animal cremation units, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

2.4 Emission Standard for Incinerators

Emissions of particulate matter (PM) from each animal cremation unit shall not exceed 0.2 pounds per 100 pounds of refuse burned in accordance with IDAPA 58.01.01.786.

2.5 Standard for Control of Odors

The permittee shall not allow, suffer, cause or permit the emission of odoriferous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution in accordance with IDAPA 58.01.01.776.01.

Operating Requirements

2.6 Fuel Type Restriction

The animal cremation units shall be fired exclusively by natural gas.

2.7 Hours of Operation Limits

- The maximum annual hours of the existing Model Power-Pak II (No. PPII-1) cremation unit shall not exceed 3,120 hr/yr.
- The maximum annual hours of the new, replacement Model Power-Pak II (No. PPII-2) cremation unit shall not exceed 1,860 hr/yr.

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2.8 Operations and Maintenance Manual Requirements

Within 60 days after startup, the permittee shall have developed an operations and maintenance manual for the afterburner control equipment for each animal cremation unit, which describes the procedures that will be followed to comply with General Provision 2 and the manufacturer's specifications. The manuals shall include, at a minimum, a general description of the cremation afterburners; normal operating conditions and procedures, including temperature ranges according to manufacturer specifications and maintenance procedures for each afterburner; methods of preventing malfunctions; appropriate corrective actions to be taken; and provisions for annual inspections. The manual shall remain onsite at all times and shall be made available to DEQ representatives upon request.

2.9 Afterburner Temperature

The afterburner temperature shall operate at a minimum temperature of 1000°F during the combustion cycle. Compliance with this permit condition shall be determined by recording the temperature readings as required in Permit Condition 2.11.

2.10 Air Pollution Emergency Rules

The permittee shall comply with the Air Pollution Emergency Rules in IDAPA 58.01.01.550-562.

Monitoring and Recordkeeping Requirements

2.11 Afterburner Temperature Monitoring

The permittee shall read and record the temperature in the afterburner and the time of day:

- Immediately prior to loading the charge into the incinerator, and
- A minimum of once per hour during the combustion cycle.

2.12 Visible Emissions Monitoring

The permittee shall conduct a quarterly inspection for visible emissions, during daylight hours and under normal operating conditions, of each cremation unit when in operation. The visible emissions inspection must be conducted quarterly for each unit, but may be conducted separately. The visible emissions inspection shall consist of a see/no see evaluation for each animal cremation unit. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the Method 9 opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emissions inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

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Records of this information shall remain on site for the most recent two-year period and shall be made available to DEQ representatives upon request.

2.13 Monitor Operating Parameters

The permittee shall monitor and record the hours of operation of each animal cremation unit in hours per month and hours per any consecutive 12 month period.

Records of this information shall remain on site for the most recent two-year period and shall be made available to DEQ representatives upon request.

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3. PERMIT TO CONSTRUCT GENERAL PROVISIONS

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
3. The permittee shall allow the Director, and/or the authorized representative(s), upon the presentation of credentials:
 - To enter, at reasonable times, upon the premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
 - At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and require stack compliance testing in conformance with IDAPA 58.01.01.157 when deemed appropriate by the Director.
4. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211.01 and 211.03:
 - A notification of the date of initiation of construction, within five working days after occurrence;
 - A notification of the date of completion/cessation of construction, within five working days after occurrence;
 - A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
 - A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
 - A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date
6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

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All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

7. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

8. In accordance with IDAPA 58.01.01.123, all documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.