

**WITH KDHE AUTHORIZED SIGNATURE, THIS DOCUMENT WILL SERVE AS THE FACILITY PERMIT. PLEASE READ CAREFULLY.**



**Kansas Department of Health and Environment – Bureau of Air**  
**1000 SW Jackson, Suite 310, Topeka, KS 66612**  
**Phone: (785)296-6024 Fax: (785)291-3953**  
**EXPEDITED Application for Construction Permit Animal Incinerators**

The facility shall submit this form, by mail or electronically to [KDHE.BOAPermit@ks.gov](mailto:KDHE.BOAPermit@ks.gov), along with any requested or pertinent additional information. Any notifications, reports, or documentation shall be submitted to the above address.

**I. Applicability**

**This EXPEDITED construction permit is applicable to a facility that is proposing to construct and operate an animal incinerator ONLY and the design of the animal incinerator must meet ALL of the requirements specified below. IF YOU CANNOT CHECK ALL BOXES #1-4, PLEASE SUBMIT THE REQUIRED INFORMATION IN SECTION II.**

- 1. Combusting ONLY animal carcasses that are not classified as medical/infectious waste as defined in 40 CFR Part 60 Subpart Ec<sup>1</sup>;
- 2. Waste burning rate is less than or equal to 350 pounds per hour (lbs/hr);
- 3. Must have the following minimum design features:
  - a. A multiple chamber incinerator<sup>2</sup> (Note: KDHE approves a two-combustion chamber incinerator as equivalent to a multiple chamber incinerator defined in K.A.R. 28-19-40(C) provided that the incinerator particulate matter (PM) emission restriction in K.A.R. 28-19-41 is being met. An afterburner/stack burner is approved by KDHE as a second combustion chamber);
  - b. Combustion gas temperature in the primary chamber must be at least 1400°F during normal operation. Combustion gas temperature in the secondary chamber must be at least 1500°F during normal operation.
  - c. Total BTU rating for all the burners must be less than or equal to 3,000,000 BTU/hr.
  - d. Fuel type for the burner can be natural gas, propane (or liquefied petroleum/propane gas, LPG) and/or diesel. The sulfur content of the fuel must be less than or equal to 1 percent by weight (e.g., 0.05% sulfur content Low Sulfur Diesel (LSD) or 0.0015% sulfur content Ultra Low Sulfur Diesel (ULSD)).
  - e. Minimum residence time in combustion chamber is 0.3 second.
- 4. Must be manufactured by an incinerator manufacturing company. This form cannot be used for homemade-type incinerators.

**If ALL requirements above apply, this application form can be used. Please fill out Sections III and IV of the form. The applicable requirements are specified in Sections V, VI, VII, VIII, IX and X of this form.**

**If ALL requirements above apply, it is estimated (based on previous performance tests data submitted by facilities to KDHE) that the proposed animal incinerator will meet the PM restrictions of 0.3 grains per dry standard cubic foot (gr/dscf) and 0.2 gr/dscf corrected to 12% carbon dioxide (CO<sub>2</sub>) as specified in K.A.R. 28-19-41(A)(1) and (A)(2), respectively.**

**If ALL requirements above apply, and no other equipment exists at the facility, the facility is not required to obtain a Title V Class I Operating Permit.**

**For KDHE Office Use Only**

This application and documentation has been reviewed and the listed equipment (or equivalent) is approved and permitted for construction under K.A.R. 28-19-300, and/or operation under K.A.R. 28-19-540 and 541.

Source ID: \_\_\_\_\_

Permit Writer: \_\_\_\_\_

C#: \_\_\_\_\_

Signature: \_\_\_\_\_

District Office (D.O.): \_\_\_\_\_

Date: \_\_\_\_\_

<sup>1</sup> **Medical/infectious waste** means any waste generated in the diagnosis, treatment, or immunization of human beings or animals, in research or in the production or testing of biologicals. For the complete definition of medical/infectious waste, please refer to 40 CFR Part 60 Subpart Ec, Section 60.51c (Definitions).

<sup>2</sup> **Multiple chamber incinerator** is defined in K.A.R. 28-19-40(C) as an incinerator consisting of three or more refractory lined combustion furnaces in series, physically separated by refractory walls, interconnected by gas passage ports or ducts and employing adequate design parameters necessary for maximum combustion of the material to be burned.

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**II. If ALL requirement under SECTION I do not apply, the applicant must submit the following with this form. Continue to fill out Sections III and IV of the form. If you checked all boxes in SECTION I, skip to SECTION III.**

- A. Incinerator design:** A description/justification that the animal incinerator will comply with K.A.R. 28-19-40(A) to 40(D). (Note: KDHE approves a two-combustion chamber incinerator as equivalent to a multiple chamber incinerator defined in K.A.R. 28-19-40(C). An afterburner/stack burner is approved by KDHE as a second combustion chamber)
- B. PM Restrictions:** A detailed calculation and the basis of calculation (such as the manufacturer's test data) showing that the animal incinerator will comply with PM restrictions specified on K.A.R. 28-19-41(A)(1) to 41(A)(3) and K.A.R. 28-19-42(A) to 42(B). If the concentration is not corrected to 12% CO<sub>2</sub>, show the details of the % flue gas correction factor.
- C. Opacity:** A description/justification that the animal incinerator will comply with K.A.R. 28-19-41(B), K.A.R. 28-19-42(C) to 42(D), and K.A.R. 28-19-43.

**III. Facility Information**

Facility Name:	Source ID No. (leave blank if new):
NAICS Code: <input type="checkbox"/> 541940, Veterinary Services <input type="checkbox"/> Other, specify:	
SIC Code: <input type="checkbox"/> 0742, Veterinary Services, Specialties <input type="checkbox"/> Other, specify:	
<b>Source Location</b>	
Street Address:	
City, State, Zip:	
Section, Township, Range, County:	
<b>Mailing Address (if different)</b>	
Street Address:	
City, State, Zip:	
<b>Contact Information of the Person Responsible to the Compliance of this Permit</b>	
Name and Designation:	
Signature: _____	Date: _____
Telephone Number and Fax Number:	
E-mail Address:	
<b>Is permit fee included?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No IMPORTANT: The application fee is \$1000. For more information, see the last page of this form. If paying using a check, include the company/facility name on the check and send the check with this form. If paying using a credit card, call one of the following numbers: (785) 296-1570 or (785) 296-6024.	

**IV. Emission Unit Information**

Manufacturer/Model No:
Maximum waste burning capacity (lbs/hr):
Expected Hours of Operation (hrs/yr):
<input type="checkbox"/> Primary combustion chamber Combustion gas temperature: _____ ° F Minimum residence time in combustion chamber: _____ seconds Fuel Type: <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane or LPG <input type="checkbox"/> Diesel    Sulfur Content: _____ % BTU rating: _____ BTU/hr
<input type="checkbox"/> Secondary combustion chamber Combustion gas temperature: _____ ° F Minimum residence time in combustion chamber: _____ seconds Fuel Type: <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane or LPG <input type="checkbox"/> Diesel    Sulfur Content: _____ % BTU rating: _____ BTU/hr
<input type="checkbox"/> Afterburner/Stack burner Combustion gas temperature: _____ ° F Fuel Type: <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane or LPG <input type="checkbox"/> Diesel    Sulfur Content: _____ % BTU rating: _____ BTU/hr

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**V. Significant Applicable Requirement**

- A. K.A.R. 28-19-40, Incinerator Emissions, General Provisions
- B. K.A.R. 28-19-41, Incinerator Emissions, Restriction of emissions (particulate matter and visible emissions of 20 % opacity limit)
- C. K.A.R. 28-19-300(a)(4), Construction permits and approvals, applicability

**VI. Air Emission Limitations**

- A. The PM emissions from the stack or vent of an animal incinerator with waste burning rate less than 200 lbs/hr or with waste burning rate equal to 200 lbs/hr to 350 lbs/hr must not exceed 0.3 gr/dscf and 0.2 gr/dscf of exhaust gas corrected to 12% CO<sub>2</sub>, respectively, in accordance with K.A.R. 28-19-41(A)(1) and (A)(2).
- B. The emissions of visible contaminants from the incinerator shall be less than 20 % opacity. [K.A.R. 28-19-41(B)]. At all times, the incinerator shall combust ONLY animal carcasses that are not classified as medical/infectious waste as defined in 40 CFR Part 60 Subpart Ec<sup>1</sup>. Incinerators that combust only animal carcasses/pathological waste that are not medical/infectious are excluded from excluded from the requirements of 40 CFR Part 60 Subpart EEEE (Standards of Performance for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or After June 16, 2006) and Subpart CCCC (Standards of Performance for Commercial and Industrial Solid Waste Incineration Units
- C. No material classified as hazardous waste, as defined by the federal Resource Conservation and Recovery Act (RCRA), or hospital/medical/infectious waste, as defined by K.A.R. 28-19-729, shall be burned in the incinerator.
- D. The burning capacity of the incinerator shall be the manufacturers or designer's guaranteed maximum rate. [K.A.R. 28-19 40(B)]
- E. Instructions for proper operation of the incinerator, including charging procedures, necessary air intake and damper adjustments, use of auxiliary burners, etc. shall be conspicuously posted and maintained at the incinerator location. In addition, the incinerator shall have a plate designating the rated capacity of the incinerator and any auxiliary burners, permanently affixed to the incinerator. [K.A.R. 28-19-40(D)]
- F. The incinerator shall be operated and maintained according to the manufacturer's specifications.

**VII. Performance Testing Requirement**

- A. No performance testing is required at this time. Since the proposed animal incinerator meets all the requirements under Section I (or Section II) of this application, it was estimated (based on previous performance tests data submitted by facilities to KDHE) that the proposed animal incinerator will meet the particulate matter (PM) restriction limit of 0.2 grains per dry standard cubic feet (dscfm) corrected to 12% carbon dioxide, specified in K.A.R. 28-19-41(A)(2).
- B. For any modifications or changes that will be made on the proposed incinerator that would affect the air emissions of the units, a notification must be submitted to KDHE so that an evaluation may be conducted.

**VIII. Recordkeeping Requirement**

- A. The facility shall keep records on a calendar quarter basis the weight of animal carcasses combusted in the incinerator.
- B. The records shall be kept on site for at least two (2) years from the date of record.

**IX. Notification**

- A. Notify the District Office in *(to be specified by KDHE)* \_\_\_\_\_ within 30 days after installation of the incinerator is complete so that an evaluation may be conducted.
- B. The facility must notify KDHE in writing of any violations of this permit. The notification shall be mailed or delivered the first workday following discovery of the violation.

**X. General Provisions**

- A. This document shall become void if the construction or modification has not commenced within 18 months of the effective date, or if the construction or modification is interrupted for a period of 18 months or longer.
- B. A construction permit or approval shall be issued by KDHE prior to commencing any construction or modification of equipment or processes which results in PTE increases equal to or greater than the thresholds specified at K.A.R. 28-19-300.
- C. Upon presentation of credentials and other documents as may be required by law, representatives of the KDHE (including authorized contractors of the KDHE) shall be allowed to:
  - 1. enter upon the premises where a regulated facility or activity is located or conducted or where records must be kept under conditions of this document;
  - 2. have access to and copy, at reasonable times, any records that must be kept under conditions of this document;
  - 3. inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this document; and
  - 4. sample or monitor, at reasonable times, for the purposes of assuring compliance with this document or as otherwise authorized by the Secretary of the KDHE, any substances or parameters at any location.
- D. The emission unit or stationary source which is the subject of this document shall be operated in compliance with all applicable requirements of the Kansas Air Quality Act and the federal Clean Air Act.

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- E. This document is subject to periodic review and amendment as deemed necessary to fulfill the intent and purpose of the Kansas Air Quality Statutes and Regulations.
- F. This document does not relieve the permittee of the obligation to obtain any approvals, permits, licenses, or documents of sanction which may be required by other federal, state, or local agencies.

**PLEASE READ**

As provided for in K.S.A. 65-3008b(e), an owner or operator may request a hearing within 15 days after affirmations, modification or reversal of a permit decision pursuant to subsection (b) of K.S.A. 65-3008a. In the Request for Hearing, the owner or operator shall specify the provision of this act or rule and regulation allegedly violated, the facts constituting the alleged violation and secretary's intended action. Such a request must be submitted to: Director, Office of Administrative Hearings, 1020 S. Kansas Avenue, Topeka, Kansas 66612-1327. Failure to submit a timely request shall result in a waiver of the right to a hearing.

**CONSTRUCTION PERMIT APPLICATION FEE**

[These requirements are found at K.A.R. 28-19-304(b).]

**The construction permit application fee is \$1000.00**

If paying using a check, include the company/facility name on the check and submit it with your application to the following address:

KDHE – Bureau of Air  
Attn: Air Permitting  
1000 SW Jackson, Suite 310  
Topeka, KS 66612

If paying using a credit card, call one of the following numbers:

**(785) 296-1570 or (785) 296-6024**