TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531

Permit to Construct or Modify an Air Contaminant Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: AUG 23 2010

Permit Number: 963794I

Date Expires: September 1, 2011

Issued To:
Helms Slaughtering Company

Installation Address:
540 Highway 61 West
Maynardville

Installation Description:
Diesel-fired 1.14 MM BTU/hr (total heat input capacity) Incinerator for Slaughterhouse Waste with Afterburner Control

Emission Source Reference No.
87-0049-01

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated June 20, 2010, and is signed by Mr. Steven Helms, Owner of the permitted facility. If this person terminates employment or is assigned different duties and is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(conditions continued on next page)

Gary R. Stephens
TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. This permit is valid only for the incineration of deceased animal remains. This permit is not valid for incineration of any "infectious waste" as this term is defined at 1200-03-25-.04 of Tennessee Air Pollution Control Regulations. This facility is not permitted to operate as a Hospital/medical/infectious waste incinerator as this term is defined at 40 CFR 60 Subpart Ec-Standards of Performance for Hospital/Medical/Infectious Waste Incinerators (see § 60.51c Definitions). This facility is not permitted to combust any amount of "hospital waste" and/or "medical/infectious waste" as these terms are defined in the above referenced regulations.

3. The stated design heat input capacity for the entire unit is 1.14 MM Btu/hr on a daily average basis. If an increase in the heat input capacity of this incinerator unit is desired, the Technical Secretary shall be notified in writing at least 60 days in advance of such modification.

4. This permit is only valid for a SB-2000 unit manufactured by Southern Breeze Fabricators, Inc. with a maximum load capacity of 2,000 pounds. The stated design charging rate for this source is 225 pounds per hour (lb/hr). The permittee shall maintain a log of the weight of the charge components and burn cycle times such that the weight of the charge divided by the body burn time does not exceed 225 pounds per hour in accordance with **Condition 7**.

5. Particulate matter (TSP) emitted from this source shall not exceed 0.2% of the charging rate (0.45 lb/hr at the maximum charge rate of 225 lbs/hr).

   This emission limitation is established pursuant to Rule 1200-03-06-.02(3)(a) of the Tennessee Air Pollution Control Regulations and the incinerator input rate, as specified in **Condition 4** of this permit.

6. This unit is designed to use diesel as the primary fuel. If alternative fuels are to be used, a construction permit application shall be made with the Division of Air Pollution Control in accordance with 1200-03-09 of TAPCR.

7. A daily log of the type and weight of material incinerated for each charging period shall be maintained at the source location in a format that readily shows compliance with **Condition 4** of this permit (See example below). This log must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. All data must be entered in the log no later than 7 days from the end of the day for which the data is required. This log must be retained for a period of not less than two (2) years. TAPCR 1200-03-10-.02(2)(a).

Cremation No. & date	**Charge input material weight**	**Start time of charge once second. chamber (afterburner) temp. reaches 1600 ° F**	**End of burn time**	**Body burn time (minutes)**	**Average charge rate (lbs/hr)**
1	Cremation No. 1 total weight from all animal(s) and containers charged for burn.				
2	Cremation No. 2 total weight from all animal(s) and containers charged for burn.				
Example Cremation #17 06/2/10	*Animal body weights: Chamber 1 - 400 lbs Container weight - 10 lbs* *Total of all material charged for cremation = 410 lbs*	*2:45 PM*	*4:45 PM*	*120 min.*	*(410lbs/2.0 hrs)* *= 205 lbs/hr*

(conditions continued on next page)

8. This incinerator shall be operated in accordance with the manufacturer's recommendations. The manufacturer's operating recommendations for this incinerator are to be maintained on site and kept available for inspection by the Technical Secretary or his representative.

9. Any malfunctions or upsets in equipment or operation shall be noted in a log. This shall include, but is not limited to:

   a) Air flow vent being stuck.
   b) Temperature recorder problems such as ink pen out of ink, pen cover not removed, chart paper problems, recorder not working or other problems related to a record of temperature and time.
   c) Power outages or electrical problems.
   d) Fuel cut off.
   e) Other incidents resulting in malfunction of equipment or operation.

   The log shall note when the event was discovered by date and time, duration if known, by whom, and what corrective action was taken if any, when taken, and when resolved. This log must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. All data must be entered in the log on the day that the events were discovered, the day the problems were noted, and the day action(s) were taken. This log must be retained for a period of not less than two (2) years.

10. Visible emissions from this source shall not exhibit greater than twenty percent (20%) opacity, except for one (1) six minute period in any one (1) hour period, and for no more than four (4) six-minute periods in any twenty-four (24) hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (6 minute average).

    TAPCR 1200-03-05-.03(6) (6-minute averaging) and TAPCR 1200-03-05-.01(3) .

11. This incinerator shall be operated with a minimum secondary chamber temperature of 1600°F averaged over the period of each body burn time. The secondary chamber temperature shall be continuously monitored and recorded. This data must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record of temperature data must be retained for a period of not less than two (2) years. Sensors shall be installed, maintained, and operated such that the flames from the burner do not impinge upon the sensors. The secondary chamber temperature shall be measured at or beyond the chamber exit. The temperature-sensing device shall have an accuracy that is plus or minus 25°F over its operating range. The recorders must have a minimum chart speed of one (1) inch per hour for strip chart recorders and a maximum of 24 hours per chart for circular recorders. As an alternative, an electronic data recorder may be utilized. A data logger may be substituted for a recorder provided that its data resolution is at least as good as that from the specified recorders.

12. The permittee shall apply for a standard operating permit within thirty (30) days from the date of issuance of this permit. TAPCR 1200-03-09-.02(1) and TAPCR 1200-03-09-.02(3).

13. This permit shall serve as a temporary operating permit from the date of issuance to the receipt of a standard operating permit, provided that an application for an operating permit is submitted within the time period specified in **Condition 12** of this permit and that the conditions of this permit and any applicable emission standards are met. TAPCR 1200-03-09-.02(2).

(End of conditions)