



State of Ohio Environmental Protection Agency

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# PERMIT TO OPERATE AN AIR CONTAMINANT SOURCE

Date of Issuance 03/06/92

Application No. 0627010000N002

Effective Date 03/06/92

Permit Fee \$210

This document constitutes issuance to:

HOLZER MEDICAL CENTER  
US 35 AND S.R. 160  
GALLIPOLIS

OHIO 45631

of a permit to operate for:

375 LB/HR CBV-500 INCINERATOR  
375 LB/HR CBV-500 INCINERATOR

The following terms and conditions are hereby expressly incorporated into this permit to operate:

1. This permit to operate shall be effective until 03/06/95  
You will be contacted approximately six months prior to this date regarding the renewal of this permit. If you are not contacted, please write to the appropriate Ohio EPA field office.
2. The above-described source is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.
3. Prior to any modification of this source, as defined in rule 3745-31-01 of the Ohio Administrative Code (OAC), a permit to install must be granted by the Ohio EPA pursuant to OAC Chapter 3745-31.
4. The Director of the Ohio EPA or an authorized representative may, subject to the safety requirements of the permit holder, enter upon the premises of this source at any 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 and federal air pollution laws and regulations and the terms and conditions of this permit.
5. A permit fee in the amount specified above must be remitted within 15 days from the issuance date of this permit.
6. Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA field office must be notified in writing of any transfer of this permit.
7. This source and any associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices in order to minimize air contaminant emissions. Any malfunction of this source or any associated air pollution control system(s) shall be reported immediately to the appropriate Ohio EPA field office in accordance with 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 this source.
8. Any unauthorized or emergency release of an air contaminant from this source which, due to the toxic or hazardous nature of the material, may pose a threat to public health, or otherwise endanger the safety or welfare of the public, shall be reported immediately to the appropriate Ohio EPA field office (during normal business hours) or to the Ohio EPA's Emergency Response Group (1-800-282-9378). (Additional reporting may be required pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act.)
9. The appropriate Ohio EPA field office is:

OHIO EPA, SOUTHEAST DISTRICT OFFICE  
AIR POLLUTION GROUP 2195 FRONT ST.  
LOGAN, OH 43138 (614) 385-8501

10.  If this term and condition is checked, the permit holder is subject to the attached special terms and conditions.

OHIO ENVIRONMENTAL PROTECTION AGENCY

*Donald R. Schreyer*

Director

APPLICATION NUMBER: 0627010000 N002  
FACILITY NAME: HOLZER MEDICAL CENTER  
EQUIPMENT DESCRIPTION: 375 LB/HR CBV - 500 INCINERATOR  
COMPANY ID: 375 LB/HR CBV - 500 INCINERATOR

SPECIAL TERMS AND CONDITIONS

1. Applicable Rules:

The following rules of the Ohio Administrative Code establish the applicable emission limitations and/or control requirements for this source:

3745-31-05  
3745-35-02  
3745-75-01  
3745-75-02  
3745-75-03  
3745-75-04  
3745-75-05  
3745-75-06

(This condition in no way limits the applicability of other requirements of the Ohio Administrative Code to this source.)

2. Emission Limits:

- A. Particulate emissions shall not exceed 0.10 pound of particulates per one hundred pounds of waste charged.
- B. Hydrogen chloride emissions shall not exceed four pounds per hour or 90% control, whichever is greater.
- C. Carbon monoxide emissions shall not exceed one hundred parts per million, by volume, on a dry basis, adjusted to seven percent oxygen in the exhaust stream as an hourly average.
- D. Emissions of metals shall not exceed the following limits:
- |     |                         |   |                        |
|-----|-------------------------|---|------------------------|
| (1) | Arsenic and Compounds   | - | 0.0042 pounds per hour |
| (2) | Beryllium and Compounds | - | 0.0076 pounds per hour |
| (3) | Cadmium and Compounds   | - | 0.010 pounds per hour  |
| (4) | Chromium and Compounds  | - | 0.0015 pounds per hour |
| (5) | Lead and Compounds      | - | 0.068 pounds per hour  |
| (6) | Mercury and Compounds   | - | 0.011 pounds per hour  |
| (7) | Nickel and Compounds    | - | 0.0076 pounds per hour |
- E. Visible particulate emissions shall not exceed five percent opacity except for six minutes in any continuous sixty minute period during which opacity shall not exceed ten percent. Opacity shall be determined by the United States Environmental Protection Agency method nine.

3. Design Parameters and Operating Restrictions:

- A. The incinerator must provide complete combustion of waste, excluding metallic items, to carbonized or mineralized ash. Any ash that does not meet the criteria shall be re-incinerated.
- B. The primary combustion chamber for intermittent feed units shall be maintained so that the exit gas is a minimum temperature of one thousand, two hundred degrees Fahrenheit. The secondary combustion chamber of any unit shall operate so that the gas exiting the secondary combustion chamber is a minimum of one thousand, eight hundred degrees Fahrenheit.
- C. The secondary combustion chamber shall have a two-second retention time at one thousand, eight hundred degrees Fahrenheit.
- D. Infectious waste shall not be loaded into the primary combustion chamber until the exit gas temperature has reached the minimum temperature specified in Paragraph (B) of Rule 3745-75-03 of the Administrative Code.
- E. The stack or stacks from any infectious waste incinerator shall be designed to minimize the impact of the emissions on employees, residents, patients, visitors, or nearby residences. The design of any unit shall meet good engineering practices so as not to cause excessive concentrations of any air contaminant at any air intake for heating and cooling of any building, or at operable windows, or doors.
- F. Any mechanically-fed incinerator must be equipped with an air lock system to prevent opening the incinerator to the room environment. The volume of the loading systems shall be designed so as to prevent overcharging of the unit to assure complete combustion of waste.
- G. The incinerator shall be designed, operated and maintained to prevent the emission of objectionable odors.
- H. Infectious waste that is also radioactive shall be managed in accordance with the applicable rules of the Ohio Department of Health and Regulations of the United States Nuclear Regulatory Commission. Radioactive waste or infectious radioactive waste which has levels of radioactivity that require special treatment or disposal according to United States Nuclear Regulatory Commission and Ohio Department of Health requirements shall not be charged into an infectious waste incinerator.

- I. The incinerator shall not be used to dispose of the following items by burning in the incinerator:
- (1) Visible globules of Mercury;
  - (2) Nickel-Cadmium batteries; and
  - (3) Switches, thermometers, batteries, and other devices containing Mercury.
- J. The incinerator is to be operated only by properly trained personnel. A minimum of forty hours of incinerator operation training shall be provided to each operator before he/she is allowed to operate an incinerator. This may include, for each operator, the successful completion of the training course in the operation and maintenance of hospital medical waste incinerators developed by the Control Technology Center, U.S. EPA, courses or instructions provided by incinerator manufacturers, professional engineering organizations, colleges or universities, or Ohio EPA. A copy of all the training records for each operator shall be immediately available to the Ohio EPA personnel upon request.
4. Monitoring Requirements:
- A. The incinerator shall be equipped with a continuous temperature recorder for the primary and secondary combustion chambers.
  - B. Any unit that is equipped with a bypass stack shall be equipped with a device to continuously monitor and record the temperature in the bypass stack.
  - C. A scale (accurate to within one pound) shall be installed near the incinerator to weigh all of the material charged to the unit. A written log shall be kept that records the amount of material charged to any unit on a pounds per hour basis or a pounds per batch basis. 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 rate.
5. Recordkeeping:
- A. The owner or operator of the incinerator shall submit reports on a quarterly basis to the Ohio EPA Southeast District office documenting all instances of values in excess of the limitations specified in Rule 3745-75-02 of the Administrative Code. These quarterly reports shall be submitted by February first, May first, August first, and November first of each year and shall cover the data obtained during the previous calendar quarters.

B. All reporting charts and charging records shall be maintained for a period of two years and be available for inspection by the Ohio Environmental Protection Agency or its authorized representatives at any reasonable time.

6. Stack Testing Requirement:

A. Once during each calendar year, beginning with calendar year 1992, the owner or operator of the incinerator shall conduct a stack test to demonstrate compliance with the requirements in Paragraphs (A) to (F) of Rule 3745-75-02 of the Administrative Code. The Director may require more frequent tests if, in the Director's judgement, there may be violation of any applicable emission standards or that there has been a change in the operation that may cause an increase in emissions due to a change in waste streams, infectious waste generators, or other operating conditions. The Director of the Ohio Environmental Protection Agency or his representative shall be allowed to witness the tests, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or performance of the control equipment. The Ohio Environmental Protection Agency shall be notified at least thirty days in advance by the owner or operator. The notice shall specify the date, time, place, source operating parameters, proposed test procedures, and persons conducting the test. Test results shall be submitted to the Ohio EPA no later than thirty days after the completion of the test.

Prepared by: Susan H. Clay *Shc*  
Date prepared: January 31, 1992

SHC/bjs