

**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**A. Introduction:**

This permit to install (PTI) allows Hirzel Canning Company - Ottawa Foods Division (hereinafter referred to as "permittee") to install a 33.5 MMBTU/HR natural gas-fired boiler (with #2 fuel oil as backup), Ohio EPA emissions unit B005.

**B. Applicable Emission Limitations and/or Control Requirements:**

1. The applicable emission limitations and/or control requirements for emissions unit B005 are as follows:
  - a. Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 0.50 pounds per million British Thermal Units (lbs/MMBTU) of heat input, 16.54 pounds per hour (lbs/hr) and 8.34 tons per year (TPY);
  - b. Particulate emissions (PE) shall not exceed 0.47 lb/hr and 0.24 TPY;
  - c. Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 4.66 lbs/hr and 2.35 TPY;
  - d. Carbon monoxide (CO) emissions shall not exceed 1.17 lbs/hr and 0.59 TPY;
  - e. Visible particulate emissions shall not exceed twenty percent (20%) opacity, as a six-minute average, except for one six-minute period per hour of not more than 27 percent opacity.

**C. Operational Restrictions:**

1. The permittee shall normally combust only natural gas. Fuel oil no. 2 of sulfur content not exceeding 0.5 % by weight shall be used as backup (standby) fuel.
2. The potential-to-emit for this permit is calculated using a maximum fuel-oil

sulfur content of 0.5% by weight and a maximum hourly #2 fuel-oil throughput rate of 233 gallons per hour being operated for 1008 hours annually. Potential emissions from the burning of fuel-oil #2 represent maximum operating conditions and exceed the maximum emissions from the burning of natural-gas at a maximum usage rate of 32, 000 cubic feet per hour (for 1008 hours annually). Since this is a seasonal operation (tomato canning season runs mid-August through mid-October) the facility has inherent physical limitations and cannot operate for 8760 hours annually. Therefore, pursuant to Ohio EPA Engineering Guide #61, 1008 hours of operation annually represents maximum operating conditions for the facility.

The maximum heat input rates, the maximum fuel-oil #2 throughput rate, the maximum sulfur content by weight, and the natural gas usage rates were specified by the permittee in the application for PTI number 03-13016. Any significant changes in the operating practices described in the permit application and/or any increase in the heat input, and/or the fuel-oil #2, and/or the natural gas usage rates which may cause an increase in the hourly emissions rate will constitute a "modification" and would require prior notification to and approval from the Ohio EPA Northwest District Office. Any changes which would be considered a "modification" as defined in OAC rule 3745-31-01 will trigger additional permitting requirements.

**D. Monitoring and Recordkeeping/Reporting Requirements:**

1. The permittee shall collect and record separately each month the information required by 40 CFR § 60.48c NSPS Subpart Dc for emissions unit B005. In addition, permittee shall maintain daily records which show the amount of natural gas combusted in emissions unit B005.

2. Oil Quality Specifications Recordkeeping and Reporting:

In accordance with 40 CFR Part 60 Subpart Dc, the permittee shall submit to the Ohio EPA, Northwest District Office, on a quarterly basis, copies of the oil supplier's analyses for each shipment of oil which is received for burning in this source. The oil supplier's analyses shall document the sulfur content (percent) and heat content (BTU/gallon) of each shipment of oil. The following information shall also be included with the copies of the oil supplier's analyses:

- i. the total quantity of oil received in each shipment (gallons);
- ii. the weighted average\* sulfur content (percent) of the oil received

during the calendar quarter; and

- iii. the weighted average\* heat content (BTU/gallon) of the oil received during the calendar quarter.

\* In proportion to the quantity of oil received in each shipment during the calendar month.

3. The permittee shall keep records of the total number of hours of operation for the boiler for the calendar year.
4. The quarterly reports required by (D)(2) above shall be submitted by January 15, April 15, July 15 and October 15 of each year and shall cover the previous calendar quarters.
5. All records, as well as any supporting analysis, shall be retained in the company's files for a period of not less than five years and shall be made available to the Director or any authorized representative of the Director for review during normal business hours.

All records required under 40 CFR § 60.48c NSPS Subpart Dc shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

**E. Testing Requirements:**

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

- a) Emission Limitation:  
B005

4.66 lbs-NO<sub>x</sub>/hr & 2.35 TPY-NO<sub>x</sub>  
1.17 lbs-CO/hr & 0.59 TPY-CO  
0.47 lb-PE/hr & 0.24 TPY-PE  
0.50 lb-SO<sub>2</sub>/MMBTU, 16.54 lbs-SO<sub>2</sub>/hr & 8.34 TPY-SO<sub>2</sub>

Applicable Compliance Method:

Compliance may be demonstrated for each pollutant by using the most recent AP-42 emission factors and multiplying it by the amount of natural gas/fuel oil burned. Compliance with the PE emissions limit, if required, shall be determined in accordance with

OAC 3745-17-03(B)(10) and Division of Air Pollution Control's (DAPC) Engineering Guide #16.

Note: The hourly PE, CO, NO<sub>x</sub> and SO<sub>2</sub> limits represents the unit's "maximum capacity" i.e., its potential to emit based on maximum operating conditions specified in (C)(1) and (C)(2). Although this permit does not require periodic record keeping to verify compliance with these limits, permittee shall maintain adequate records in the facility's files to verify that the emissions unit's maximum capacity (including hours of operation) has not been increased.

(b) Emission Limitation:  
B005

20% opacity as a six-minute average, except for one six-minute period per hour of not more than 27 percent opacity.

Applicable Compliance Method:

Compliance with the visible emission limitations shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(1).

**G. Miscellaneous Requirements:**

None

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Date prepared: July 17, 1998