

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

JUL 20 2009



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

Date Issued: July 13, 2009

Permit Number:
962766P

Date Expires: June 30, 2010

Issued To:
Heraeus Metal Processing, LLC

Installation Address:
Rt. 62 E. Knoxville Highway
Wartburg

Installation Description:
Natural Gas-Fired Crucible Furnace,
1.0 MMBtu/hr Heat Input Capacity,
Two Induction Furnaces,
Baghouse Control

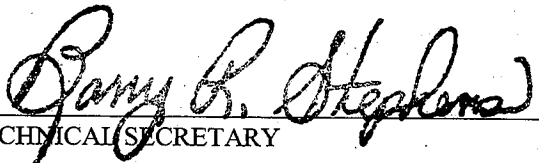
Emission Source Reference No.
65-0049-06

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 letter that was utilized in the preparation of this permit is dated September 25, 2006, and is signed by J.P. Rosso, Vice President of Tennessee Operations for the permitted facility at the time. 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/or 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/or covenants.

(conditions continued on next page)


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

CN-0754 (Rev. 9-92)

RDA-1298

2. The total stated heat input capacity for this source is 1.0 MMBtu/hr. The Technical Secretary may require the permittee to prove compliance with this rate.
3. The total raw material input for this source shall not exceed 9,001 tons during any period of twelve consecutive months. Compliance with this condition shall be assured by recordkeeping. A log of the material input rate for each actual calendar month, in a form that readily shows compliance with this condition must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative.
4. Particulate matter (as TSP) emitted from this source shall not exceed 3.7 pounds per hour on a daily average. Compliance with shall this condition shall be assured by **Condition 9**. This emission limitation is established pursuant to Rule 1200-3-7-.03(1) of the Tennessee Air Pollution Control Regulations.
5. Volatile Organic Compounds (VOC) emitted from this source shall not exceed 0.1 ton per year. This emission limitation is established pursuant to Rule 1200-3-7-.07 of the Tennessee Air Pollution Control Regulations.
6. Nitrogen oxides (NO_x) emitted from this source shall not exceed 8.6 tons during any period of twelve consecutive months. This emission limitation is established pursuant to Rule 1200-3-7-.07 of the Tennessee Air Pollution Control Regulations.
7. 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 (six-minute average).

TAPCR 1200-3-5-.03(6) and TAPCR 1200-3-5-.01(1)

8. Fugitive emissions from this source shall be controlled as specified in Rule 1200-3-8-.01. Specifically, no person shall cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five (5) minutes per hour or twenty (20) minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-3-20. Fugitive emissions from this source shall be determined by Tennessee Visible Emissions Evaluation Method 4 as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.
9. Air pollution control equipment (baghouse) used by this source shall be operating at all times when this source is operating. Assurance for this condition is as follows:
 - a. The permittee shall record a minimum of one pressure drop reading per day in a handwritten log. The log shall include the time of the reading, the value read, the name of the plant operator recording the value, and any relevant comments as needed. The permittee shall note all days when the source is not operating.
 - b. The minimum pressure drop value recommended per the June 19, 2008, correspondence is 1.2" of water column. Compliance with the emission standard in **Condition 4** is assured by maintaining a pressure drop equal to or greater than the minimum value (≥ 1.2 " WC). If the pressure drop reading falls below the minimum value, the operator shall inspect the baghouse and initiate corrective actions to bring the pressure drop to above the minimum value.
 - c. The operator shall note all inspection findings and corrective actions in the log. For lower pressure drop reading(s) resulting from replacement of bags, the permittee shall record the deviation(s) as such in their daily records. Due allowance will be made for lower pressure drop reading(s) which follow replacement of bags, provided the permittee establishes to the satisfaction of the Technical Secretary that these lower readings resulted from bag replacement.
 - d. This log shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five (5) years.

(conditions continued on next page)

10. Routine maintenance, as required to maintain specified emission limits, shall be performed on the air pollution control device(s). Maintenance records shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five (5) years.
11. Upon the malfunction/failure of any emission control device(s) serving this source, the operation of the process(es) served by the device(s) shall be regulated by Chapter 1200-3-20 of the Tennessee Air Pollution Control Regulations.
12. The following requirements shall apply to all recordkeeping:
 - (a) For all monthly logs, all data, including all required calculations, must be entered in the log no later than thirty (30) days from the end of the month for which the data is required.
 - (b) For all weekly logs, all data, including all required calculations, must be entered in the log no later than seven (7) days from the end of the week for which the data is required.
 - (c) For all daily logs, all data, including all required calculations, must be entered in the log no later than seven (7) days from the end of the day for which the data is required.
 - (d) All data, including all required calculations, must be entered in the logs as prescribed above and must be retained for a period of not less than five (5) years.
13. This permit shall serve as a temporary operating permit from issuance to the receipt of a Title V Major source-operating permit, provided the operating permit application is applied for within 90 days after issuance of this permit (i.e. an updated Title V operating permit application), the conditions of this permit and any applicable emission standards are met.

(end of conditions)

The permit application gives the location of this source as 36.04°Latitude and 84.44° Longitude.

Permit 957140P was modified to remove reference and requirements of the conditional major operating permit. It was further modified to represent equipment changes that were made after removal of the reverbatory furnace. This issue includes current condition language in various places. It removes the reference to the agreement letter used for conditional major status, as this facility has title V status.