

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

MAY 11 2009



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

Date Issued: May 4, 2009

Permit Number:  
962573P

Date Expires: March 31, 2010

Issued To:  
Heraeus Metal Processing, LLC

Installation Address:  
Rt. 62 E. Knoxville Highway  
Wartburg

Installation Description:  
Ball Mills #1, 2, 3, & 4

Emission Source Reference No.  
65-0049-04

One (1) 10,000 CFM Baghouse

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 January 6, 2009, and is signed by Dan West, Director of Operations, for the permitted facility. The current responsible official for this facility is Dan West, Director of Operations, for 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/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**

2. The total raw material input to ball mills #1, #2, #3, and #4 shall not exceed 8,069 tons during any period of twelve consecutive months.

Compliance with this condition shall be assured by complying with the recordkeeping requirements of **Conditions 5 and 9**.

3. Particulate matter (as TSP) emitted from this source shall not exceed 3.41 pounds per hour (lb/hr). Compliance with this condition shall be assured by compliance with **Condition 4**.

This emission limitation is established pursuant to Rule 1200-3-7-.03(1) of the Tennessee Air Pollution Control Regulations.

4. For the 10,000 CFM Baghouse, the permittee shall comply with the following requirements:

- 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 0.25" of water column. Compliance with the emission standard in **Condition 3** is assured by maintaining a pressure drop equal to or greater than the minimum value ( $\geq 0.25$ " 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.

5. A log of the material input rate for each actual calendar month, in a form that readily shows compliance with **Condition 2**, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This log must be retained for a period of not less than five (5) years.

6. Visible emissions from this source shall not exhibit greater than twenty percent (20%) opacity except for one six-minute period per one (1) hour or 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 40 CFR 60, Appendix A (six-minute average).

This emission limitation is established pursuant to Rules 1200-3-5-.01(1) and 1200-3-5-.03(6) of the Tennessee Air Pollution Control Regulations.

7. 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.
8. 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.
9. 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.

(conditions continued on next page)

- (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.
- 10. 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.
  - 11. The issuance of this construction permit supersedes any previously issued permit(s) for this air contaminant source.
  - 12. This permit shall serve as a temporary operating permit from issuance to the receipt of an 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), and provided the conditions of this permit and any applicable emission standards are met.

(end of conditions)

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The permit application gives the location of this source as 35°32'45.5"Latitude and 84°32'57.8" Longitude.

This source was amended/modified as follows:

- 1. Emission sources 65-0049-02 and 65-0049-04 were combined into a single permit, in accordance with permittee request dated August 22, 2005.
  - 2. This permit removes a baghouse (4,400 CFM) that was previously associated to this source. It has been removed from service.
  - 3. This construction permit modifies equipment used in the emission source. It will add a low grade blender, drum dumper, crumbler and two screens. It also increases the throughput.
  - 4. This permit incorporates the recommended pressure drop value for compliance assurance.
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