

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

DEC 12 2005



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

Date Issued: May 25, 2004

Permit Number:
957138P

Date Amended: DEC 07 2005

[AMENDMENT]

Date Expires: May 31, 2005

Issued To:

Heraeus Metal Processing

Installation Address:

Rt. 62 E. Knoxville Highway
Wartburg

Installation Description:

Pan Dumper and Ball Mills #1, 2, 3, 4

Baghouse Controls:

One (1) 4,400 CFM Baghouse

One (1) 10,000 CFM Baghouse

Emission Source Reference No.


65-0049-04

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 February 17, 2004, and is signed by Mark Degman, General Manager, for the permitted facility. Per the letter from the permittee dated March 7, 2005, the Responsible Official for this facility is J. P. Rosso, Acting Vice President, Tennessee Operations. If this person terminates employment or is reassigned different duties such that they are 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)


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 permittee has elected to opt-out of being issued a major source operating permit pursuant to Division Rule 1200-3-9-.02(11)(a). The permittee would be considered a major source because their "potential to emit" values for particulate matter and volatile organic compounds (VOC) were greater than 100 tons per year at the time of application. The permittee has agreed to be subject to limitations in order to be below the major source applicability thresholds for particulate matter and volatile organic compounds of 100 tons per year each.
3. Any non-compliance with any condition(s) of this permit set to restrain the "potential to emit" below the applicability thresholds of 1200-3-9-.02(11) of the Tennessee Air Pollution Control Regulations shall be reported in writing to the Technical Secretary within three (3) working days of such discovery. This notification, at a minimum, shall include the identification of the source, identification of the permit condition(s) violated, and details of the violation.
4. A report stating the compliance status of this facility with **Condition 6** of this permit shall be submitted by March 31 of every year, beginning in the year 2005. This report shall cover the preceding calendar year and shall include the records required by **Conditions 7, 8 and 9**. The report shall be submitted to the Knoxville Environmental Field Office at the following address:

Knoxville Environmental Field Office
 Division of Air Pollution Control
 2700 Middlebrook Pike
 Knoxville, TN 37921

5. The total raw material input to ball mills #1, #2, #3, and #4 shall not exceed 5,111 tons during any period of twelve consecutive months.

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

6. Particulate matter (as TSP) emitted from this source shall not exceed 5.5 pounds per hour (lb/hr). Compliance with this condition shall be assured by compliance with **Conditions 7 and 8**.

This emission limitation is established pursuant to Rule 1200-3-9-.02(11)(a) of the Tennessee Air Pollution Control Regulations.

7. For the 4,400 CFM Baghouse, the permittee shall comply with the following requirements:
 - a) The permittee shall maintain a minimum pressure drop of 2.0 inches of water across the baghouse.
 - b) 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.
 - c) 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.
 - d) 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.

(conditions continued on next page)

- e) 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.

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

- a) The permittee shall install a baghouse pressure gauge to measure the pressure drop (inches of water) across the baghouse. Upon installation of this baghouse, the permittee shall compile thirty (30) days of pressure drop readings across the baghouse. The designated person(s) shall note any relevant baghouse conditions/problems/concerns when recording the values.
- b) The pressure drop data, including a proposed minimum pressure drop value, shall be submitted to the Division no later than 15 days after completion of the readings. In addition to the pressure drop data, the permittee shall submit vendor recommended baghouse specifications/parameters/operating practices for proper baghouse operation at this time. The data and baghouse information shall be submitted to the East Tennessee Permit Program and the Knoxville Environmental Field Office at the following addresses:

East Tennessee Permit Program
Division of Air Pollution Control
9th Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1531

Knoxville Environmental Field Office
Division of Air Pollution Control
2700 Middlebrook Pike
Knoxville, TN 37921

- c) Upon review and approval of the pressure drop data by the Technical Secretary, the permittee shall demonstrate compliance with **Condition 6** by maintaining the approved minimum pressure drop across the baghouse.
- d) 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.
- e) 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.
- f) 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.
- g) 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.

9. A log of the material input rate for each actual calendar month, in a form that readily shows compliance with **Condition 5**, 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.

10. Visible emissions from this source shall not exhibit greater than twenty percent (20%) opacity as determined by EPA Method 9, as published in 40 CFR 60, Appendix A. (six-minute average).

(conditions continued on next page)

11. 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.
12. 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.
13. 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.
14. This permit shall serve as a temporary operating permit from initial start-up to the receipt of a Conditional Major operating permit, provided that 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.

This permit was amended 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 was amended to indicate that a second baghouse (10,000 CFM) will be added to this source, in accordance with permittee request dated August 22, 2005.

The requirements to submit baghouse pressure drop data for the 4,400 CFM baghouse, to certify the startup date of this source, and to apply for a Conditional Major operating permit were included in the first issuance of this permit and have been completed by the permittee. These requirements have been removed from this amendment.