



- (3) This Operating Permit is issued for the structural steel production sources listed in Attachment I.
- (4) This Operating Permit supersedes and consolidates the Operating Permit No. 48-302-040.
- (5) The following NO<sub>x</sub> emissions shall apply:
  - (a) Blast furnace gas bleeders - 35.6 TPY
  - (b) Blast furnace stoves - 358.8 TPY
  - (c) Power house blowing engines - 52.0 TPY
  - (d) No. 2 Boiler House - 0.20 lb/MMBTU of heat input  
(30-day rolling average)
  - (e) Basic Oxygen Furnaces - 190.8 TPY
  - (f) Soaking pit furnaces - 713 TPY
  - (g) Combo mill reheat furnaces - 867 TPY
- (6) Continuous emission monitoring requirements are as follows:
  - (a) Continuous emission monitor Nos. 03593, 03693 and 03793 (Boilers 1, 2 and 3 - No. 2 Boiler House) for nitrogen oxides shall be certified, operated and maintained in accordance with the Department's "Continuous Source Monitoring Manual" (Revision No. 5 - March, 1993).
  - (b) Continuous monitoring shall be conducted in accordance with 25 PA Code Chapter 139 and be approved by the Department.
- (7) Testing requirements are as follows:
  - (a) Source tests for NO<sub>x</sub> for the two combo mill reheat furnaces shall be conducted in accordance with 25 PA Code Chapter 139 as per the Department's source testing procedures approved by the Department prior to testing. Compliance shall be based on the average of three consecutive source tests. Source tests are to be conducted on an annual basis.
  - (b) At least sixty (60) days prior to the tests, pre-test protocol shall be submitted to the Department for approval.
  - (c) Within sixty (60) days of the completion of the tests, two (2) copies of the complete test reports, including all operating conditions shall be submitted to the Department for approval.

(8) Blast Furnace (gas bleeders and stoves) and Power House Blowing Engines

- (a) NO<sub>x</sub> RACT shall be the operation and maintenance of the sources according to manufacturers specifications.
- (b) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:
  - 1. Data which clearly demonstrates that the emission limits in Conditions (5)(a), (5)(b) and (5)(c) are met.
  - 2. All records shall be maintained for at least two years and shall be made available to the Department upon request.

(9) No. 2 Boiler House

- (a) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:
  - 1. Data which clearly demonstrates that the emission limit in Condition (5)(d) is met.
  - 2. All CEM reports shall be submitted to the Department within thirty (30) days after each quarter but no later than the time frame established in the Department's Continuous Source Manual. The Department reserves the right to require the report submissions in floppy disks with a format acceptable to the Department.
  - 3. All records shall be maintained for at least two years and shall be made available to the Department on request.
- (b) The operation of the aforementioned sources shall not at any time result in the emission of visible air contaminants in excess of the limitations specified in 25 PA Code Section 123.41, particulate matter emissions in excess of limitations specified in 25 PA Code Section 123.11, sulfur dioxide emissions in excess of limitations specified in 25 PA Code Section 123.22, or emissions in excess of the limitations specified in 25 PA Code Section 123.23.
- (c) The operation of the No. 3 boiler shall comply with the requirements of 25 PA Code Chapter 122 dealing with the Standards for Performance for New Stationary Sources. Fuel sampling/analysis strategy shall be performed as detailed in Mr. Joseph C. Nazzaro's August 13, 1981 letter.

(10) Basic Oxygen Furnaces, Soaking Pit Furnaces and Combo Mill Furnaces

- (a) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:
1. Data which clearly demonstrates that the emission limits in Conditions (5)(e), (5)(f), and (5)(g) are met.
  2. All records shall be maintained for at least two years and shall be made available to the Department on request.

(11) BOF-FMD Boiler

- (a) NO<sub>x</sub> RACT shall be the installation, maintenance and operation of the source according to manufacturers specifications in accordance with the presumptive RACT emission limitations as found in 25 PA Code Section 129.93(c)(1).
- (b) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:
1. Data which clearly demonstrates that the heat input for the boiler never exceeds its rated capacity.
  2. All records shall be maintained for at least two years and shall be made available for the Department on request.

(12) VOC RACT for in-plant painting and the compressed air system shall be the operation and maintenance of the sources according to manufacturers specifications.

(13) The company shall notify the Department within one hour of becoming aware of any malfunction(s) of the sources or associated air pollution control equipment which results in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in applicable Department Rules or Regulations. In addition to said telephone notice, written confirmation shall be submitted to the Department within five (5) work days which shall include a description on the known or suspected cause of the malfunction(s), correction action(s) completed and measures proposed by Bethlehem to prevent similar malfunctions in the future.

- (14) Any notification required to be given by Bethlehem as a result of any condition herein shall be deemed to have been properly given if made by telephone during normal working hours between 8:00 a.m. and 4:00 p.m. Monday through Friday excluding state holidays to the Bethlehem District Office, Bureau of Air Quality Control (610) 861-2070. If such notice is required to be given at any other time, or if there is no answer at the above number, such notice by telephone shall be given prior to 9:00 a.m. on the next day of State business.
- (15) Nothing contained in this permit shall be construed to prevent or limit the application of the provisions of the Air Pollution Control Act, as amended, and 25 PA Code Chapter 137 which relate to air pollution episodes.
- (16) The expiration date shown on this Operating Permit is for state purposes. For Federal Enforcement purposes the Operating Permit shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR 51.4 and approved by the U.S. Environmental Protection Agency (EPA). The Operating Permit shall become enforceable by the U.S. EPA upon its approval of the above as a revision to the SIP.
- (17) This Operating Permit is valid for a limited period of time and may be renewed before its expiration date. Requests for an Operating Permit Renewal must be in writing and must be accompanied by a permit fee in the amount of (five hundred dollars) \$500.00 (\$250.00 application processing fee and \$250.00 annual administration fee). The request should be made on an Interim Application for Renewal of a Permit to Operate form and must be received by the Department along with a completed Compliance History form no later than January 31, 1999.

An annual Operating Permit administration fee of two hundred fifty dollars (\$250.00) is also due no later than the anniversary date of this Operating Permit. The administration fee is to be submitted with one of the transmittal forms (attached).

ATTACHEMENT I

Structural Steel Production

Blast Furnace Gas Bleeders (3)

Blast Furnaces-Stoves

Power House Blowing Engines

No. 2 Boiler House, No. 1 Boiler

No. 2 Boiler House, No. 2 Boiler

No. 2 Boiler House, No. 3 Boiler

Service and Heating Torches

Steelmaking, Basic Oxygen Furnaces (2)

B.O.F. - F.M.D. Boiler

Blooming Mills - Soaking Pit Furnaces (22)

Combo Mill Reheat Furnaces (2)

In-Plant Painting

Compressed Air System