OhioEPA
State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149
(614) 644-3020
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George V. Voinovich
Governor

P017-P020,
P021-P022
B004

July 17, 1991 CERTIFIED MAIL

Re: Modification to Permit to Install No. 06-1583
Tuscarawas County

Barmet Industries-Newport Rolling Mill
P.O. Box 29
Uhrichsville, OH 44683

Attention: Stan Platek

Dear Sir:

Enclosed please find a modification to the Ohio EPA Permit to Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Board of Review pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency and the Environmental Law Division of the Office of the Attorney General within three (3) days of filing with the Board. An appeal may be filed with the Environmental Board of Review at the following address: Environmental Board of Review, 236 East Town Street, Room 300, Columbus, OH 43215.

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

Enclosure

cc: US EPA
Southeast District Office

Printed on recycled paper

Issuance Date: July 17, 1991

Effective Date: July 17, 1991

OHIO ENVIRONMENTAL PROTECTION AGENCY

MODIFICATION TO PERMIT TO INSTALL

Name of Applicant: Barmet Industries-Newport Rolling Mill
Address: Co Rd 28 & Trenton Ave
City: Mill Twp, OH
Telephone:

The Ohio EPA has received a request for a modification for the Ohio EPA Permit to Install referenced above.

The Permit to Install issued to Barmet Industries-Newport Rolling Mill (PTI No. 06-1583) is hereby modified in the following manner:

Terms and ~~Conditions on~~ Pages 3, 4 and 5 of Permit to Install issued February 11, 1987. → also PTI #06-2975 for P020

The reason for the modification is:

Stack testing of the sources demonstrated that AP-42 emission factors for gas fired boilers were not transferable to gas fired aluminum melting and holding furnaces.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

Ohio Environmental Protection Agency

Donald R. Schregardus

Director

Air Contaminant Sources: Four melting furnaces
Two holding furnaces
5.2 MMBH gas fied boiler

Wastewater Disposal Systems: None

solid Waste Disposal Facilities: None

The air contaminant sources listed below comprise the Permit to Install. Emission control requirements/limits are specified in the table below:

Ohio EPA Source No.	Source Identification/ Description	BAT Determination	Applicable Federal and OAC Rules	Allowable Emission Rate (lb/hr ea.)		Annual Emissions (Tons/Yr)
P017-20	4 Melting Furnaces	Charge material is limited to clean aluminum - no painted or oily scrap will be charged	3745-31-05 (A)(3)	TSP	0.60	2.63
				NOx	0.50	2.19
				CO	0.30	1.31
				SO_2	0.02	0.09
				HF	0.05	0.22
				Sb	1.20×10^{-5}	5.25×10^{-5}
				As	2.57×10^{-5}	1.13×10^{-4}
				Be	1.20×10^{-5}	5.25×10^{-5}
				Cd	1.84×10^{-4}	8.06×10^{-4}
				Cr	2.05×10^{-3}	8.98×10^{-3}
				Pb	3.93×10^{-4}	1.72×10^{-3}
				Mn	3.81×10^{-4}	1.67×10^{-3}
				Ni	1.04×10^{-3}	4.56×10^{-3}
				Se	1.42×10^{-4}	6.22×10^{-4}
				Ti	3.09×10^{-3}	1.35×10^{-2}
P021-22	2 Holding Furnaces	Same as above	3745-31-05 (A)(3)	TSP	0.60	2.63
				NOx	0.50	2.19
				CO	0.30	1.31
				SO_2	0.06	0.26
				HF	0.10	0.44

Ohio EPA Source No.	Source Identification/ Description	BAT Determination	Applicable Federal and OAC Rules	Allowable Emission Rate (lb/hr ea.)	Annual Emissions (Tons/Yr)
				Sb 1.09×10^{-5}	4.77×10^{-5}
				As 7.88×10^{-6}	3.45×10^{-5}
				Be 1.09×10^{-5}	4.77×10^{-5}
				Cd 1.91×10^{-4}	8.37×10^{-4}
				Cr 1.23×10^{-4}	5.39×10^{-4}
				Pb 1.09×10^{-4}	4.77×10^{-4}
				Mn 9.43×10^{-5}	4.13×10^{-4}
				Ni 4.05×10^{-4}	1.77×10^{-3}
				Se 6.08×10^{-5}	2.66×10^{-4}
				Ti 2.40×10^{-3}	1.05×10^{-2}
3004	5.2 MMBH Boiler	No control required. (A)(3) Use of natural gas constitutes BAT	3745-31-05	TSP 0.104	0.46
				Nox --	1.8
				CO --	0.4
				SO_2 --	0.09

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons/Year
Particulate (TSP)	16.24
Nitrogen oxides (NO_x)	14.94
Carbon monoxide (CO)	8.26
Sulfur dioxide (SO_2)	0.97
Hydrogen fluoride (HF)	1.76
Antimony (Sb)	3.05×10^{-4}
Arsenic (As)	5.21×10^{-4}
Beryllium (Be)	3.05×10^{-4}
Cadmium (Cd)	4.90×10^{-3}
Chromium (Cr)	3.70×10^{-2}
Lead (Pb)	7.83×10^{-3}
Manganese (Mn)	7.51×10^{-3}
Nickel (Ni)	2.18×10^{-2}
Selenium (Se)	3.02×10^{-3}
Titanium (Ti)	7.50×10^{-2}

As specified in OAC 3745-31-05, all new sources must, at a minimum, employ Best Available Technology. The following terms and conditions fulfill these requirements and any applicable federal regulations.

1. Material charged in these furnaces shall consist of clean aluminum only - no painted or oily material may be charged.

2. <u>Stack test requirements for particulate emissions:</u>

   This facility shall have conducted an emission test(s) for this source in order to demonstrate compliance with the allowable mass emission rate for particulate matter, nitrogen oxides, carbon monoxide, sulfur dioxide, hydrogen fluoride, antimony, arsenic, beryllium, cadmium, chromium, lead, manganese, nickel, selenium and titanium. The emission test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03.

   Not later than 30 days prior to the proposed test date(s), this facility shall submit an "Intent to Test" notification to the Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the source operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the field office's refusal to accept the results of the emission test(s).

   Personnel from the Southeast District Office shall be permitted to witness the test(s), examine the testing equipment and acquire data and information regarding the source operating parameters.

   A comprehensive written report on the results of the emission test(s) shall be submitted to the Southeast District Office within 30 days following completion of the test(s).

3. <u>Identification of the Ohio EPA Field Office Which Must Receive Reports, Test Results, Notifications, etc:</u>

   Unless otherwise specified, all reports, test results, notifications, etc. required by the above terms and conditions shall be submitted to or made to the following Ohio EPA field office:

   Southeast District Office
   Ohio EPA
   2195 Front Street
   Logan, Ohio 43138
   614-385-8501