



06-05063

BOYERTOWN FOUNDRY CO/FKA EAFCO



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: June 16, 2020

Effective Date: August 1, 2020

Expiration Date: [REDACTED]

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 06-05063

Federal Tax Id - Plant Code: 23-2974886-1

Owner Information

Name: BOYERTOWN FOUNDRY CO
Mailing Address: NINTH ST & ROTHERMEL DR
PO BOX 443
NEW BERLINVILLE, PA 19545-0443

Plant Information

Plant: BOYERTOWN FOUNDRY CO/FKA EAFCO
Location: 06 Berks County 06803 Boyertown Borough
SIC Code: 3321 Manufacturing - Gray And Ductile Iron Foundries

Responsible Official

Name: MARK L REINSMITH
Title: MANAGER OF MANUFACTURING
Phone (610) 473 - 1004

Permit Contact Person

Name: MARK REINSMITH
Title: MANAGER OF MANUFACTURING
Phone: (610) 473 - 1000

[Signature]

William R Weaver

WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER



Pages 2-28, 30-40, 42-44, 46-50, 52-56, 59-70, and 73-76 are redacted entirely.

**SECTION D. Source Level Requirements**

Source ID: 101

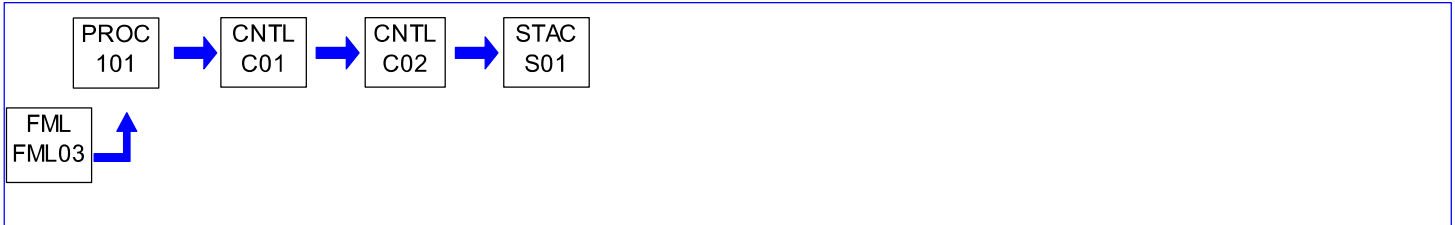
Source Name: IRON CUPOLA

Source Capacity/Throughput:

16.000 Tons/HR

GRAY IRON

Conditions for this source occur in the following groups: SG03

**I. RESTRICTIONS.****Emission Restriction(s).**

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the emissions of VOC from this source to less than 1.0 tons during any consecutive 12-month period.

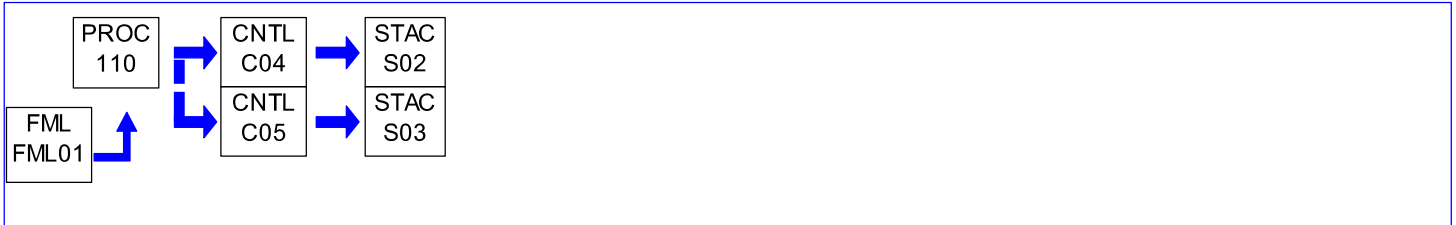
**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: CORE MAKING AREA

Source Capacity/Throughput: 15.000 Tons/HR SAND

Conditions for this source occur in the following groups: SG01
SG05



**SECTION D. Source Level Requirements**

Source ID: 112

Source Name: HYDROSLINGER SAND SYSTEM- AMEREX

Source Capacity/Throughput: 100.000 Tons/HR SAND/CASTINGS

Conditions for this source occur in the following groups: SG05

PROC
112CNTL
C12STAC
S12

**SECTION D. Source Level Requirements**

Source ID: 115

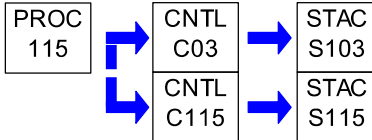
Source Name: KUNKEL WAGNER MOLDING LINE

Source Capacity/Throughput:

9.000 Tons/HR

IRON CASTINGS

Conditions for this source occur in the following groups: SG05



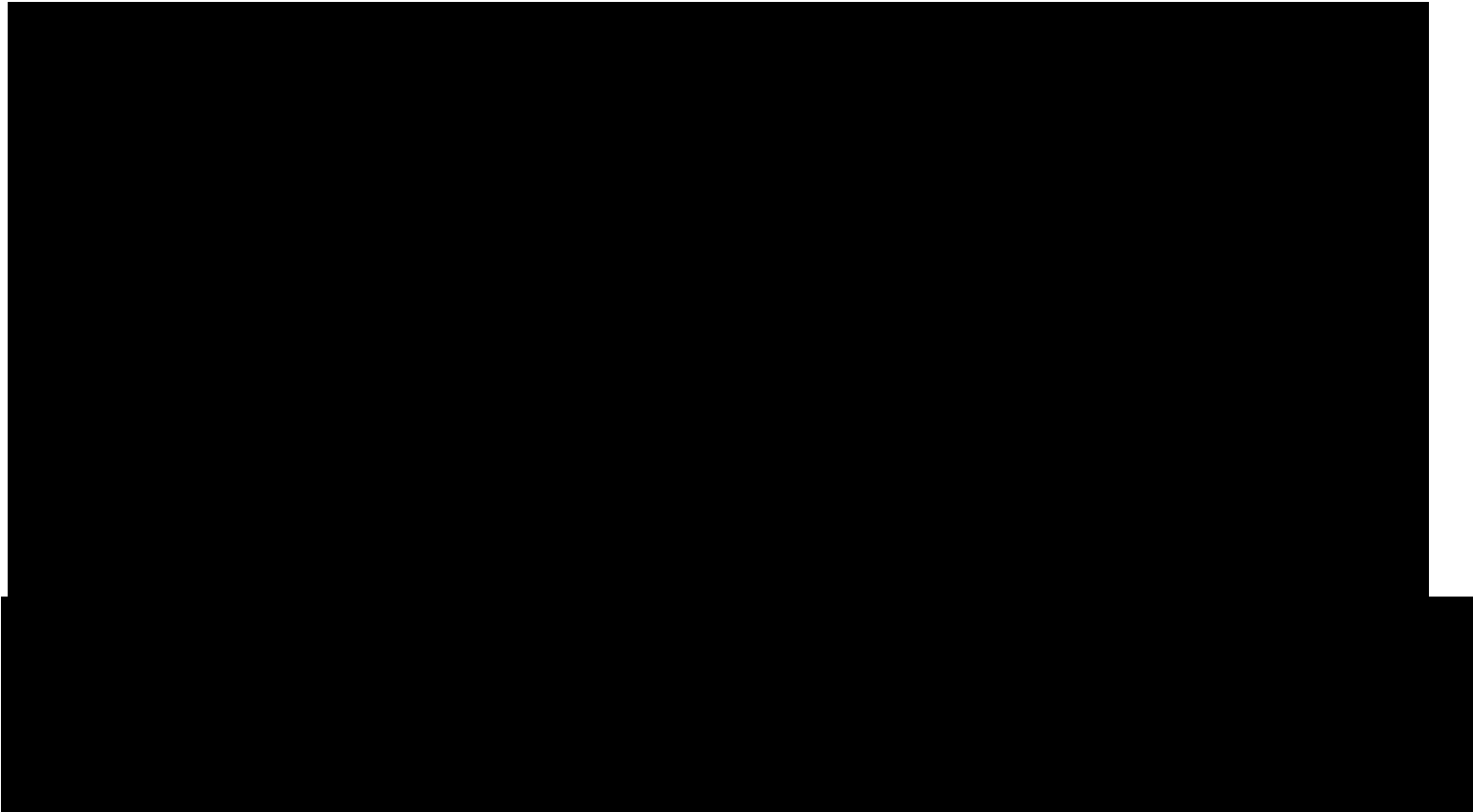
**SECTION E. Source Group Restrictions.**

Group Name: SG01

Group Description: Core making & finishing operations

Sources included in this group

ID	Name
107	SHOTBLAST MACHINE 2
108	STAND GRINDER 1
109	STAND GRINDER 2
110	CORE MAKING AREA
114	GRIT BLAST ROOM

I. RESTRICTIONS.**Throughput Restriction(s).**

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the usage of the following materials used in the core making operation, Source 110, to:

- a. Binder in the mix - 1.7 percent, by weight, or less (annual average)
- b. Catalyst - 2.26 pounds per ton of sand or less (annual average)
- c. Sand - 13,333 tons during any consecutive 12-month period

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the emissions from the scrubber (C04) controlling the three core making machines to the following:

- a. Dimethylethylamine (DMEA):
 - 1. 0.14 pounds per hour



SECTION E. Source Group Restrictions.

2. 0.15 tons during any consecutive 12-month period

[REDACTED]

Note: DMEA is a listed volatile organic compound (VOC). Emissions of DMEA shall be counted as VOCs in the monthly and 12-month rolling totals.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use dimethylethylamine (DMEA) as the catalyst.

**SECTION E. Source Group Restrictions.**

Group Name: SG05

Group Description: RACT 2 case-by-case

Sources included in this group

ID	Name
110	CORE MAKING AREA
112	HYDROSLINGER SAND SYSTEM- AMEREX
115	KUNKEL WAGNER MOLDING LINE

VII. ADDITIONAL REQUIREMENTS.**# 001 [25 Pa. Code §129.99]****Alternative RACT proposal and petition for alternative compliance schedule.****I. 112 Hydroslinger Line and 115 Kunkle Wagner Line**

- (a) The permittee shall limit the throughput of Sources 112 and 115 combined to not greater than 7,680 tons of metal per month.
- (b) The permittee shall maintain and adhere to an operation and maintenance plan for the above sources, which shall address good operation and maintenance practices for the minimization VOC emissions.
- (c) The permittee shall maintain records of any maintenance or modifications performed on above sources
- (d) The permittee shall calculate and record the actual fuel and/or process thruput amounts, and actual monthly and 12-month rolling VOC emissions from the above sources.
- (e) The permittee shall maintain written documentation of the items in (b)-(c) above for five years. The records shall be made available to the Department upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

II. 110 Core Making Area

**SECTION E. Source Group Restrictions.**

- (a) The permittee shall limit binder/resin usage at Source 110 to 35,552 pounds per month, and shall also limit catalyst usage at Source 110 to 2,222 pounds per month.
- (b) The permittee shall utilize the coremaking scrubber for controlling VOC emissions. The scrubber shall be in operation at all times that the associated coremaking process is in operation.
- (c) The permittee shall continuously monitor and display the pressure drop across the scrubber packed bed, the scrubber liquid flow to the packed bed, and the pH of the scrubber liquid.
- (d) The permittee shall record the following, and maintain these records for at least five years: 1.) all maintenance performed on the scrubbers, 2.) daily readings of the pressure drop across the scrubber packed bed, the scrubber liquid flow to the packed bed, and the pH of the scrubber liquid.
- (e) The permittee shall maintain monthly records for the core making operation, Source 110, of the following:
1. Hours of operation
 2. Amount of binder/resin used
 3. Amount of catalyst used
 4. Amount of sand used
 5. Emissions of VOC
 6. Amount of cores produced
- All records shall be monthly and 12-month rolling totals. The records shall be made available to the Department upon request.
- (f) The permittee shall maintain manufacturer provided fact sheets (MSDS or Technical Data Sheets) showing the volatile organic compound content of each part of the binder and the catalyst used in the core making operation, Source 110.
- (g) The permittee shall notify the Department in the annual emissions report of any new binders and/or catalyst in the coremaking operation, Source 110.
- (h) Equipment (a flow gauge or equivalent, as approved by the Department), shall be maintained so that at any time the scrubber liquid flow to the packed bed of the scrubber (C04) can be measured.
- (i) Unless otherwise approved in writing by the Department, the permittee shall operate the packed bed scrubber (C04) within the following parameter ranges:
- 1.) a pressure drop range of 1 to 3 inches.
 - 2.) a minimum scrubber liquid flow rate to the bed of 115 gallons per minute.
 - 3.) pH range of the scrubber liquid between 0.06 and 4.5.
- (j) In accordance with 25 Pa. Code §129.100(i), all records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.