



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: July 31, 2025

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, SOUTH CENTRAL REGION AIR PROGRAM MANAGER



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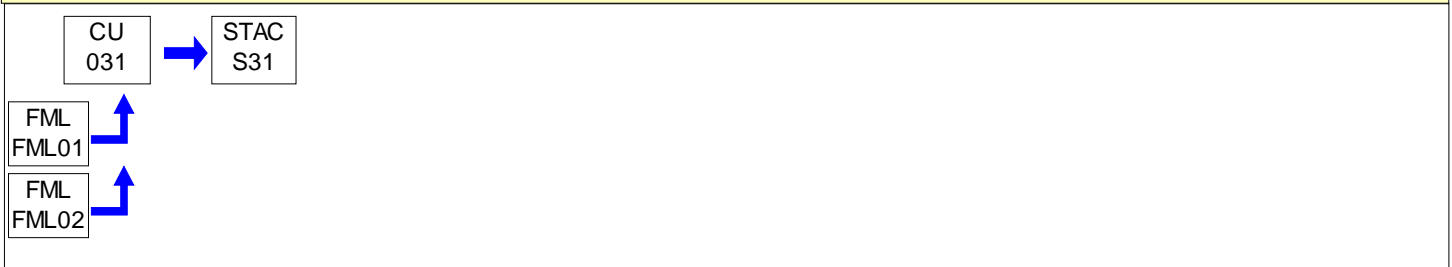
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	BOILERS (>2.5 MMBTU)	7.500 MMBTU/HR	
		51.700 Gal/HR	NO. 2 FUEL OIL
		7.500 MCF/HR	NATURAL GAS
032	BOILERS (<2.5 MMBTU)	6.700 MMBTU/HR	
		46.200 Gal/HR	NO. 2 FUEL OIL
		6.700 MCF/HR	NATURAL GAS
033	MAKE-UP AIR UNITS	5.000 MMBTU/HR	
		5.000 MCF/HR	NATURAL GAS
034	SPACE HEATERS	12.000 MCF/HR	NATURAL GAS
101	IRON CUPOLA	16.000 Tons/HR	GRAY IRON
104	SEVEN SAND SILOS & BINS	452.000 Tons/HR	SAND
105	SAND MULLOR	5.000 Tons/HR	SAND
107	SHOTBLAST MACHINE 2	10.000 Tons/HR	CASTINGS
108	STAND GRINDER 1	2.500 Tons/HR	CASTINGS
109	STAND GRINDER 2	2.500 Tons/HR	CASTINGS
110	CORE MAKING AREA	15.000 Tons/HR	SAND
111	SHOTBLAST MACHINE 1	2.500 Tons/HR	CASTINGS
112	HYDROSLINGER SAND SYSTEM- AMEREX	100.000 Tons/HR	SAND/CASTINGS
113	METALLIC SCRAP STORAGE AREAS		
114	GRIT BLAST ROOM		
115	KUNKEL WAGNER MOLDING LINE	9.000 Tons/HR	IRON CASTINGS
116	COLD CLEANER		
C01	(3) AFTERBURNERS		
C02	SCRUBBER: CUPOLA		
C03	FABRIC COLLECTOR: KUNKEL LINE		
C04	SCRUBBER: CORE MAKING		
C05	FABRIC COLLECTOR: CORE MAKING HEATERS		
C07	FABRIC COLLECTOR: 40T BOND SAND SILO		
C08	FABRIC COLECTOR: 60T NOBAKE SAND SILO (#13)		
C09	FABRIC COLLECTOR: 250T MULLOR SAND SILO(#10)		
C10	FABRIC COLLECTOR: 102 T MOLD SAND SILO		
C105	FABRIC COLLECTOR: SAND MULLOR		
C106	FABRIC COLLECTOR: SHOTBLAST 1		
C107	FABRIC COLLECTOR: SHOTBLAST 2		
C108	FABRIC COLLECTOR: STAND GRINDER 1		
C109	FABRIC COLLECTOR: STAND GRINDER 2		
C111	FABRIC COLLECTOR: 250T ISOCURE CORE SD SILO		
C112	FABRIC COLLECTOR: 5T CORE SAND BIN (MA#1)		
C113	FABRIC COLLECTOR: 5T CORE SAND BIN (MA#2)		
C115	FABRIC COLLECTOR: KUNKEL LINE		

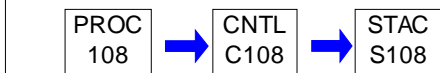
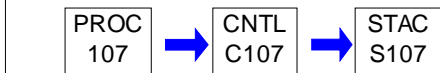
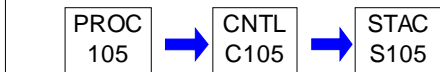
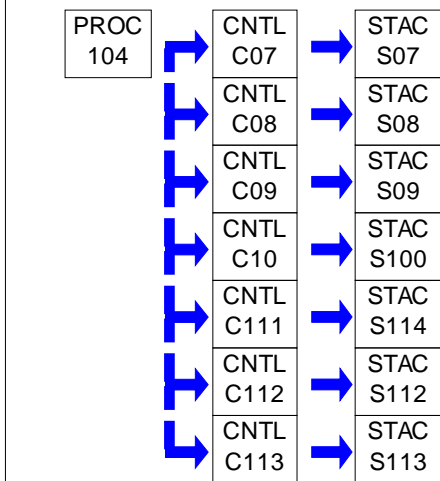
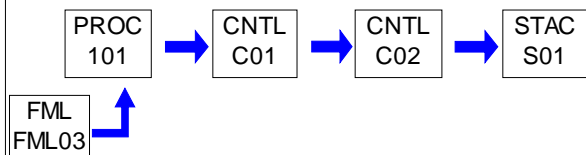
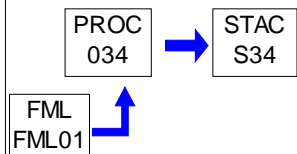
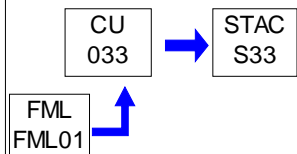
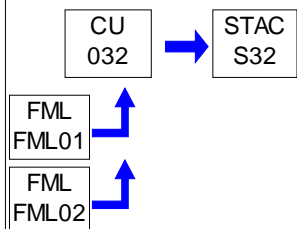
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C12	FABRIC COLLECTOR: HYDROSLINGER		
C14	FABRIC COLLECTOR: SAND BLAST ROOM		
C141	CYCLONE: GRIT BLAST ROOM		
FML01	NATURAL GAS PIPELINE		
FML02	NO. 2 FUEL OIL		
FML03	COKE		
S01	STACK: CUPOLA		
S02	STACK: CORE MAKING SCBR		
S03	STACK: CORES AND HEATERS		
S07	STACK: 40 T BOND SILO		
S08	STACK: 60 T NO BAKE SILO		
S09	STACK: 250 T MULLOR SAND SILO		
S100	STACK: 102 T MOLD SAND SILO		
S103	STACK: KUNKLE LINE AMEREX		
S105	STACK: SAND MULLOR		
S106	STACK: #1 SHOTBLAST		
S107	STACK: #2 SHOTBLAST		
S108	STACK: STANDGRINDER 1		
S109	STACK: STANDGRINDER 2		
S112	STACK: 5 T CORE SAND SILO		
S113	STACK: 5 T CORE SAND SILO		
S114	STACK: 250 T CORE SAND SILO		
S115	STACK: KUNKEL LINE (SENECA)		
S12	STACK: HYDROSLINGER		
S14	STACK: GRIT BLAST ROOM		
S31	STACK: BOILERS (3)		
S32	STACKS: SMALL BOILERS (10)		
S33	STACKS: AIR MAKE-UP UNITS		
S34	STACK: SPACE HEATERS (40)		
Z113	FUGITIVE: METALLIC SCRAP STORAGE AREAS		
Z116	FUGITIVE: COLD CLEANER		

PERMIT MAPS

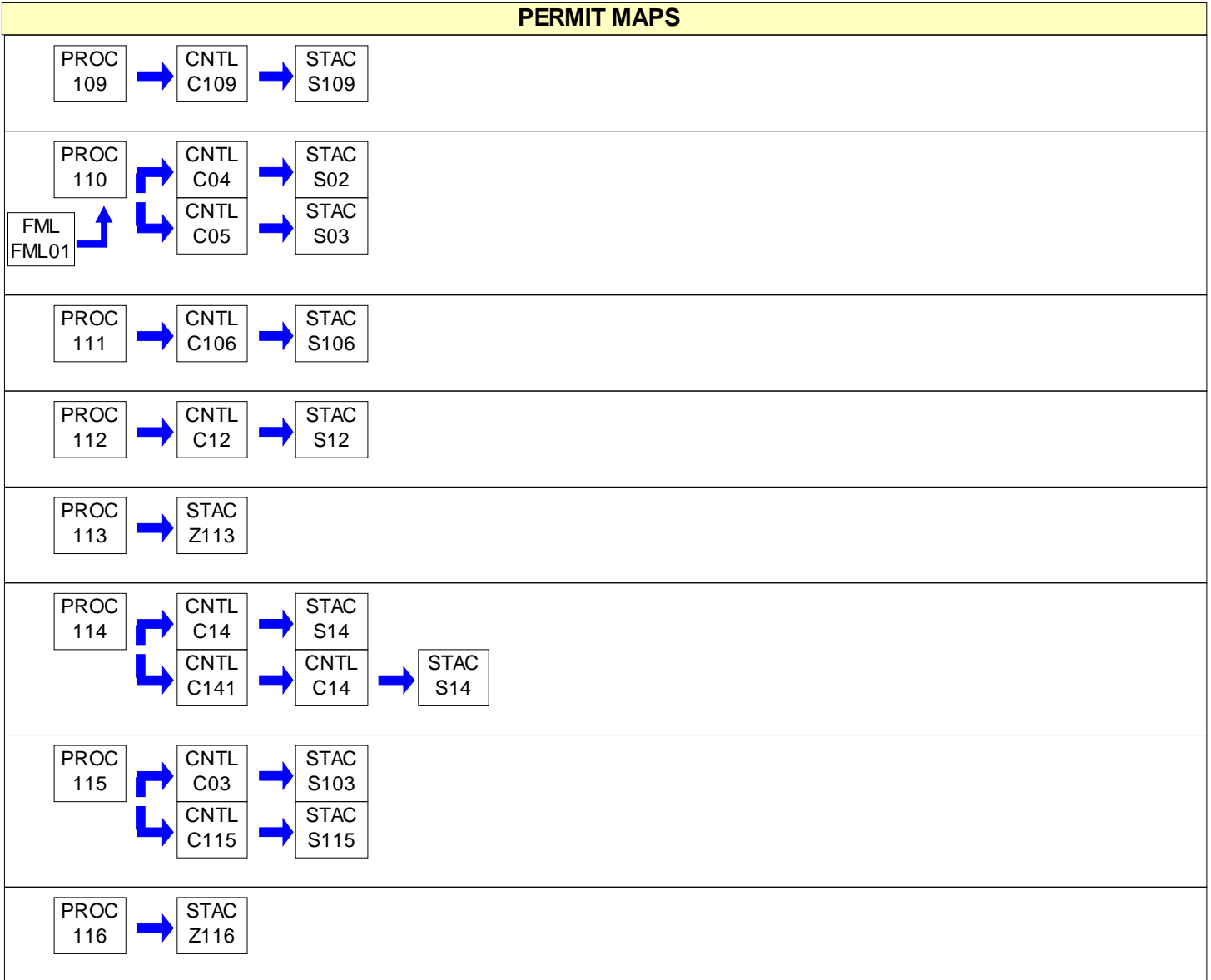


PERMIT MAPS





PERMIT MAPS



**SECTION B. General Title V Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the act.

#003 [25 Pa. Code § 127.512(c)(4)]**Property Rights**

This permit does not convey property rights of any sort, or any exclusive privileges.

#004 [25 Pa. Code § 127.446(a) and (c)]**Permit Expiration**

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]**Permit Renewal**

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]**Transfer of Ownership or Operational Control**

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

**SECTION B. General Title V Requirements**

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#007 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]**Inspection and Entry**

(a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:

- (1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
- (2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#008 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]**Compliance Requirements**

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit.

#009 [25 Pa. Code § 127.512(c)(2)]**Need to Halt or Reduce Activity Not a Defense**

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]**Duty to Provide Information**

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or

**SECTION B. General Title V Requirements**

to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]**Reopening and Revising the Title V Permit for Cause**

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#012 [25 Pa. Code § 127.543]**Reopening a Title V Permit for Cause by EPA**

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#013 [25 Pa. Code § 127.522(a)]**Operating Permit Application Review by the EPA**

The applicant may be required by the Department to provide a copy of the permit application, including the compliance plan, directly to the Administrator of the EPA. Copies of title V permit applications to EPA, pursuant to 25 PA Code §127.522(a), shall be submitted, if required, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#014 [25 Pa. Code § 127.541]**Significant Operating Permit Modifications**

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with

**SECTION B. General Title V Requirements**

25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#015 [25 Pa. Code §§ 121.1 & 127.462]**Minor Operating Permit Modifications**

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications). Notifications to EPA, pursuant to 25 PA Code §127.462(c), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#016 [25 Pa. Code § 127.450]**Administrative Operating Permit Amendments**

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a). Copies of request for administrative permit amendment to EPA, pursuant to 25 PA Code §127.450(c)(1), if required, shall be submitted to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

(b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

#017 [25 Pa. Code § 127.512(b)]**Severability Clause**

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction, or US EPA to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]**Fee Payment**

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

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(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#019 [25 Pa. Code §§ 127.14(b) & 127.449]**Authorization for De Minimis Emission Increases**

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

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(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#020 [25 Pa. Code §§ 127.11a & 127.215]**Reactivation of Sources**

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#021 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department,

**SECTION B. General Title V Requirements**

the device or technique may be used for control of malodors.

#022 [25 Pa. Code §§ 127.402(d) & 127.513(1)]**Submissions**

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the permit transmittal letter,
or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Office of Air Enforcement and Compliance Assistance (3AP20)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#023 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]**Sampling, Testing and Monitoring Procedures**

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#024 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

**SECTION B. General Title V Requirements**

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#026 [25 Pa. Code § 127.513]**Compliance Certification**

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #022 of this section.

#027 [25 Pa. Code § 127.3]**Operational Flexibility**

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)

**SECTION B. General Title V Requirements**

- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

#028 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]**Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

- (1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

**SECTION B. General Title V Requirements**

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #26 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]**Approved Economic Incentives and Emission Trading Programs**

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#030 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]**Permit Shield**

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

- (1) The applicable requirements are included and are specifically identified in this permit.
- (2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

- (1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.
- (2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.
- (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.
- (4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

#031 [25 Pa. Code §135.3]**Reporting**

(a) The permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#032 [25 Pa. Code §135.4]**Report Format**

Emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

No person shall permit the emission into the outdoor atmosphere of any fugitive air contaminant from a source other than the following:

- a. Construction or demolition of buildings or structures.
- b. Grading, paving and maintenance of roads and streets.
- c. Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- d. Clearing of land.
- e. Stockpiling of materials.
- f. Open burning operations.
- g. Sources and classes of sources other than those identified above, for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 1. the emissions are of minor significance with respect to causing air pollution;
 2. the emissions are not preventing or interfering with the attainment or maintenance of any ambient air standard.

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

No person shall permit fugitive particulate matter to be emitted into the outdoor atmosphere from the source specified in Condition #001 if such emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]**Limitations**

No person shall permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

004 [25 Pa. Code §123.41]**Limitations**

No person shall permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- a. Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- b. Equal to or greater than 60% at any time.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall limit the hazardous air pollutants (HAPs) emissions from the facility to 10 tons of any one HAP and 25 tons of all HAPs combined during any consecutive 12-month period.

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §123.43]****Measuring techniques**

Visible air contaminants may be measured using either of the following:

- a. A device approved by the Department and maintained to provide accurate opacity measurements.

**SECTION C. Site Level Requirements**

b. Observers, trained and certified, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) Pursuant to 25 Pa. Code § 139.3 at least 90 calendar days prior to commencing an emissions testing program, unless otherwise approved in writing by DEP, a test protocol shall be submitted to the Department for review and approval. Unless otherwise approved in writing by DEP, the permittee shall not conduct the test that is the subject of the protocol, until the protocol has been approved by DEP.

(b) Pursuant to 25 Pa. Code § 139.3 at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 25 Pa. Code Section 139.53(a)(3) within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.

(d) Pursuant to 40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 63.7(g) a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program. For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test

(e) Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.
4. Statement of compliance or non-compliance with each applicable permit condition.

(f) Pursuant to 25 Pa. Code § 139.3 to all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(g) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(h) Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecomm/Login.jsp> when it becomes available. If internet submittal cannot be accomplished, one digital copy of each submittal shall be made to each of the following:

Regional Office:
Digital copy: RA-epscstacktesting@pa.gov

Bureau of Air Quality:
Digital copy: RA-epstacktesting@pa.gov

(h)(1) A complete paper copy of each submittal shall be made to PA DEP, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468

**SECTION C. Site Level Requirements**

(h)(2) A paper copy of (only) the cover letter/page (for both protocols and reports) and summary table (for reports only), of each submittal shall be made to Program Manager, Air Quality Program, PA DEP Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110

(i) The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

008 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The Department reserves the right to require exhaust stack testing of any source for the duration of the permit as necessary to verify emissions for purposes of emission fee, malfunction or permit condition violation.

The testing should be performed while the source(s) is operating at the maximum rated capacity. If the maximum rate cannot be achieved, the source shall be operated at its maximum normal operation. The permittee shall request approval to operate in this manner prior to testing.

009 [25 Pa. Code §139.1]**Sampling facilities.**

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such source. The Department will set forth, in the time period in which the facilities shall be provided as well as the specifications for such facilities.

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall conduct a daily inspection during regular business workdays around the plant periphery during daylight hours when the plant is in production to detect visible emissions, fugitive emissions and malodorous emissions as follows:

- a. Visible emissions in excess of the limits stated in Section C, Condition #004 and Section d, Source 104, Condition #003. Visible emissions may be measured according to the methods specified in Section C, Condition #006. As an alternative, plant personnel who observe such visible emissions shall report each incident to the Department within four (4) hours of the occurrence and arrange for a certified observer to read the visible emissions. Corrective measures shall be taken to halt the visible emissions.
- b. Presence of fugitive emissions beyond the plant property boundaries, as stated in Section C, Condition #002.
- c. Presence of malodorous air contaminants beyond the plant property boundaries as stated in Section C, Condition #003.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain record of inspections round the plant periphery. Each record shall include, at minimum, the following information:

- 1.) Name of the company representative doing the observation.
- 2.) Date and time of the monitoring.
- 3.) Wind direction.
- 4.) Description of any emissions and/or malodors observed and actions taken to mitigate them. If none, record "NONE."

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Unless otherwise noted, all records required by this and subsequent operating permits shall be maintained for the most recent five-year period and shall be readily available to the Department upon request. The most recent two years of records

**SECTION C. Site Level Requirements**

must be retained at the facility. The remaining three years of records may be retained off site. The records may be retained on paper, microfilm, microfiche or computer disks. If the records are retained on computer disks, the records must be in commonly available software. Commonly available software is usually compatible with a Microsoft application such as Word or Excel. For records kept off site, readily available is defined as available within one business day.

013 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall record the emissions of HAPs from the facility monthly and maintain a 12-month rolling total.

V. REPORTING REQUIREMENTS.**# 014 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The permittee shall report malfunctions which occur at the Title V facility to the Department. As defined in 40 CFR Section 60.2 and incorporated by reference in 25 Pa. Code Chapter 122, a malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or unusual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

- a. Malfunctions which occur at the Title V facility and which pose an imminent danger to public health, safety, welfare and the environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two hours after the incident. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.
- b. Unless otherwise required by this permit, any other malfunction that is not subject to the reporting requirements of a., shall be reported to the Department, in writing, within five (5) days of discovery of the malfunction.
- c. Malfunctions shall be reported to the Department at the following:

PA DEP, Reading District Office
Air Quality Program
1005 Crossroads Blvd
Reading, PA 19605

Telephone reports can be made to the Air Quality Program at 610-916-0100 during normal business hours or to the Department's Emergency Hotline at any time. The Emergency Hotline phone number is changed/updated periodically. The current Emergency Hotline phone number can be found at <https://www.dep.pa.gov/About/Regional/SouthcentralRegion/Pages/default.aspx>.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 015 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable action to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- b. Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.

**SECTION C. Site Level Requirements**

c. Paving and maintenance of roadways.

d. Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

016 [25 Pa. Code §123.42]**Exceptions**

The limitations of 25 Pa. Code Section 123.41 (relating to limitations) do not apply to a visible emission in any of the following instances:

- a. The presence of uncombined water is the only reason for failure of the emission to meet the limitation;
- b. The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- c. The emission results from sources specified in Section C, Site Level Requirements condition #001.

017 [25 Pa. Code §127.444]**Compliance requirements.**

The permittee shall operate and maintain all sources in a manner consistent with good operating and maintenance practices.

018 [25 Pa. Code §129.14]**Open burning operations**

(a) No person may permit the open burning of material in such a manner that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
- (3) The emissions interfere with the reasonable enjoyment of life or property.
- (4) The emissions cause damage to vegetation or property.
- (5) The emissions are or may be deleterious to human or animal health.

(b) These limits do not apply where the open burning operations result from:

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (2) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (5) A fire set solely for recreational or ceremonial purposes.
- (6) A fire set solely for cooking food.

(c) This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management Act, 35 P. S. Section 6018.610(3), or any other provision of the Solid Waste Management Act.

**SECTION C. Site Level Requirements****# 019 [25 Pa. Code §135.21]****Emission statements**

Per Site Level Category VIII COMPLIANCE CERTIFICATION below, forward EPA the annual compliance certification report electronically, in lieu of a hard copy version, to the email address: 'R3_APD_Permits@epa.gov'. Electronic reports shall be in .pdf format.

VIII. COMPLIANCE CERTIFICATION.

The permittee shall submit within thirty days of 01/01/2021 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #026 of section B of this permit, and annually thereafter.

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

***** Permit Shield In Effect *****

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: BOILERS (>2.5 MMBTU)

Source Capacity/Throughput:

7.500 MMBTU/HR

51.700 Gal/HR

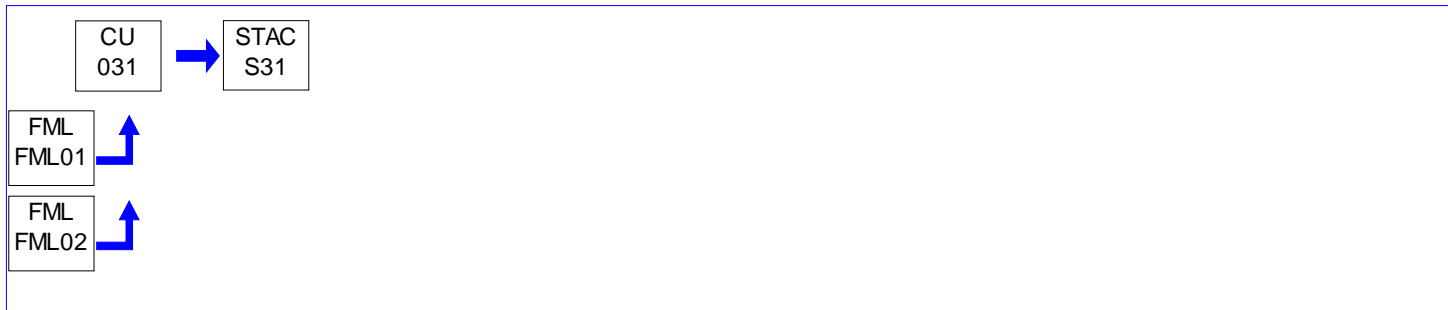
NO. 2 FUEL OIL

7.500 MCF/HR

NATURAL GAS

Conditions for this source occur in the following groups: SG02

SG04

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: BOILERS (<2.5 MMBTU)

Source Capacity/Throughput:

6.700 MMBTU/HR

46.200 Gal/HR

NO. 2 FUEL OIL

6.700 MCF/HR

NATURAL GAS

Conditions for this source occur in the following groups: SG02

SG04

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: MAKE-UP AIR UNITS

Source Capacity/Throughput: 5.000 MMBTU/HR
5.000 MCF/HR NATURAL GAS

Conditions for this source occur in the following groups: SG02
SG04

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: SPACE HEATERS

Source Capacity/Throughput: 12.000 MCF/HR NATURAL GAS

Conditions for this source occur in the following groups: SG04

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

The permittee shall limit the particulate emissions from the sources to 0.04 grain per dry standard cubic feet or less.

002 [25 Pa. Code §123.21]**General**The permittee shall limit the emissions of sulfur oxides, expressed as SO₂, to 500 ppmv or less.**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain an inventory of the source. This inventory shall be updated by February 1 of each year. The inventory shall identify the units within the source, the heat-input rates of each unit, the type of fuel used and the location in the facility.

004 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall record the type and amounts of fuel used by the sources. An annual report shall be submitted in conjunction with the "AIMS" report.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 005 [25 Pa. Code §129.93]
Presumptive RACT emission limitations**

The permittee shall maintain and operate the sources in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**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).****# 001 [25 Pa. Code §123.13]****Processes**

The permittee shall limit the emission into the outdoor atmosphere of particulate matter from the cupola at any time in a manner that the concentration of particulate matter in the effluent gas does not exceeds 0.02 grains per dry standard cubic foot or in excess of the rate calculated by the following formula, whichever is greater:

$$A = .76E^{(0.42)}$$

where:

A = Allowable emissions in pounds per hour.

E = Emission index = F x W pounds per hour.

F = Process factor in pounds per ton, and

W = Production or charging rate in tons per hour.

The factor F for this source is 150 pounds per ton when the cupola is melting at a rate of 5 tons per hour or less, and 50 pounds per ton when the cupola is melting at a rate greater than 5 tons per hour.

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.

Fuel Restriction(s).**# 003 [25 Pa. Code §127.444]****Compliance requirements.**

The permittee shall not allow coke for use in the iron cupola which contains more than 6% sulfur content, by weight.

Operation Hours Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall not operate the iron cupola in excess of 5760 hours per calendar year. The calendar year is from January 1, through December 31 of the same year.

Throughput Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall limit the throughput of the Iron cupola to a rate not greater than 16 TPH of metal production.

**SECTION D. Source Level Requirements****Control Device Efficiency Restriction(s).****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 25 Pa Code Section 129.91, RACT]

The permittee shall operate the afterburner combustion chamber as follows during the operation of the cupola:

- a. A minimum temperature of 1400 degrees Fahrenheit.
- b. A retention time of at least 0.75 second.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Unless otherwise approved in writing by the Department, the permittee shall operate the venturi scrubber as follows during the operation of the cupola:

- a. An operating pressure drop of at least 60" w.g. shall be maintained across the venturi scrubber system.
- b. An inlet water flow rate into the scrubber of at least 300 gallons per minute.

If during source testing it is determined that higher rates are required to achieve the emission limits, these higher rates become the minimum rates at which the cupola is operated. Any change in these parameters would not be effective until the permittee is notified in writing by the Department.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the PA No. 06-5063A, 25 Pa Code Section 129.91, RACT and 40 CFR Section 64.7, CAM]

The permittee shall provide and maintain equipment to measure the following:

- a. pressure drop across the scrubber, utilizing a differential manometer or equivalent,
- b. water flow rate to the scrubber, utilizing a rotameter or equivalent,
- c. the temperature in the afterburner combustion chamber, utilizing a thermocouple or equivalent.

All monitoring devices shall be of a type approved by the Department.

009 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall measure the pressure drop across the venturi throat once per shift during the operation of the cupola.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

**SECTION D. Source Level Requirements**

The permittee shall measure the water flow rate to the venturi throat once per shift, when the cupola is in operation.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall inspect the venturi scrubber and associated equipment for the following:

- a. Quarterly:
 1. Leaks in the water lines to the scrubber
 2. Leaks in the waste collection system
- b. Annually:
 1. Wear on the exhaust fan, venturi throat, water spray nozzles
 2. Wear on the waste removal system

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 25 Pa Code Section 129.91, RACT and 40 CFR Section 64.7, CAM]

The permittee shall measure the temperature of the gases in the afterburner combustion chamber once per shift, when the cupola is in operation.

IV. RECORDKEEPING REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall record all inspections and calibrations of the monitoring devices. Any adjustments, repairs and/or replacements shall be recorded. These records shall include the date and personnel conducting the action.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.9, CAM]

The permittee shall record the results of the quarterly and annual equipment inspections in a manner approved by the Department. These records shall include any corrective actions taken.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 25 Pa Code Section 129.91, RACT and 40 CFR Section 64.9, CAM]

The permit shall maintain comprehensive and accurate records of the following:

- a. The number of operating hours of the cupola on a monthly and yearly basis.
- b. The pressure drop across the venturi throat, once per shift, when the cupola in operation.
- c. The water flow rate to the venturi scrubber, once per shift, when the cupola is in operation.
- d. The temperature in the afterburner combustion chamber, once per shift, when the cupola is in operation.

The method of maintaining the above records shall be approved by the Department.

**SECTION D. Source Level Requirements****# 016 [25 Pa. Code §129.91]****Control of major sources of NOx and VOCs**

The permittee shall maintain a 12-month rolling total of the VOC emissions from the source. The emissions shall be determined in the same manner as found in the RACT Plan of December 16, 2003, or any other method approved by the Department.

V. REPORTING REQUIREMENTS.**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.9, CAM]

The permittee shall report all malfunctions and excursions, corrective action taken, dates, times, durations and possible causes of the events to the Department, every six months. This report shall be part of the semi-annual compliance reports. The report shall include all monitoring down times not associated with malfunctions and/or excursions.

018 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall submit coke analyses received from the coke supplier or analyses conducted by a laboratory in the semi-annual compliance report.

VI. WORK PRACTICE REQUIREMENTS.**# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall maintain the water flow meter in accordance with the manufacturer's recommendations. The permittee shall record all checks and adjustments made to the meter. The permittee shall check the meter and water lines for water leakage once per quarter. Annually the meter shall be checked for calibration in a method approved by the Department.

020 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

40 CFR 64.7(d)(1) Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

40 CFR 64.7(d)(2) Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall weekly inspect the manometer or equivalent to see that it returns to zero. If not it shall be zeroed. The tubing to and from the meter shall be checked for leakage and/or blockage, once per quarter. If a mechanical device is used

**SECTION D. Source Level Requirements**

to measure the pressure drop, the device shall be calibrated once per year.

022 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional Authority for this condition is derived from 25 Pa Code Section 129.91, RACT and 40 CFR Section 64.8, CAM]

The permittee shall conduct the following calibrations on the afterburner combustion chamber temperature monitor:

- a. Weekly check to see that the monitor returns to an ambient temperature after the cupola has stopped operation and "cooled" to room temperature
- b. Monthly calibrate the monitor by comparison to a calibrated thermocouple

VII. ADDITIONAL REQUIREMENTS.**# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 25 Pa Code Section 129.91, RACT and 40 CFR Section 64.8, CAM]

The permittee shall develop and implement a quality improvement plan (QIP) if any of the following occurs:

1. The pressure drop across the venturi throat is below the limit 6 or more times in any consecutive 6-month period. (See Restriction #006.)
2. The water flow rate to the venturi throat is below the limit 6 or more times in any consecutive 6-month period. (See Restriction #006.)
3. The temperature in the afterburner combustion chamber is below the limit 6 or more times in any consecutive 6-month period. (See Restriction #007.)

The permittee shall record any actions taken to implement a QIP during a reporting period and all related actions including, but not limited to, inspections, repairs and maintenance performed on the monitoring equipment.

In accordance with 40 CFR Section 64.8, CAM, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the QIP shall be modified to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- a. Improved preventive maintenance practices
- b. Process operation changes
- c. Appropriate improvements in control methods
- d. Other steps appropriate to correct performance

Following implementation of the QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

- i. Address the cause of the control device performance problem
- ii. Provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting, work practice and record keeping requirements that may apply under any federal, state or local laws or any other applicable requirement under the Clean Air Act.

**SECTION D. Source Level Requirements**

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee may use clean wood as a starter fuel for coke (FML03).

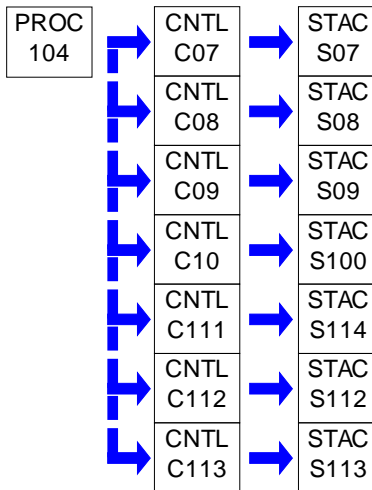
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: SEVEN SAND SILOS & BINS

Source Capacity/Throughput: 452.000 Tons/HR SAND

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

Unless otherwise stated elsewhere in this permit, the permittee shall limit the emission into the outdoor atmosphere of particulate matter from the sand storage areas at any time in a manner that the concentration of particulate matter in the effluent gas does not exceed 0.02 grains per dry standard cubic foot or in excess of the rates calculated by the following formula, whichever is greater:

$$A = 0.76E^{(0.42)}$$

where:

A= Allowable emissions in pounds per hour.

E= Emission index = F x W pounds per hour.

F= 20 pounds per ton of sand, and

W= Production rate in tons per hour.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall limit the particulate emissions for the 102 ton mold sand storage silo to 0.02 grains per dry standard cubic foot.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate the 102 ton Mold Sand Storage Silo without visible emissions.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).



SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain a monitoring device on the 102 ton Mold Sand Storage Silo capable of measuring the pressure drop across the control device.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

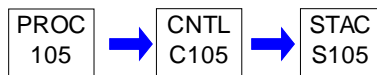
Source ID: 105

Source Name: SAND MULLOR

Source Capacity/Throughput:

5.000 Tons/HR

SAND

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall limit the emissions into the outdoor atmosphere of particulate matter from the sand mullor at any time in a manner that the concentration of particulate matter in the effluent gas does not exceed 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 107

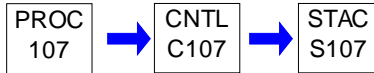
Source Name: SHOTBLAST MACHINE 2

Source Capacity/Throughput:

10.000 Tons/HR

CASTINGS

Conditions for this source occur in the following groups: SG01

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 108

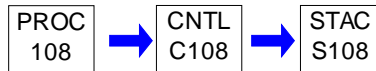
Source Name: STAND GRINDER 1

Source Capacity/Throughput:

2.500 Tons/HR

CASTINGS

Conditions for this source occur in the following groups: SG01

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 109

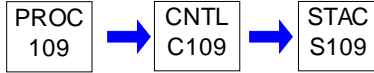
Source Name: STAND GRINDER 2

Source Capacity/Throughput:

2.500 Tons/HR

CASTINGS

Conditions for this source occur in the following groups: SG01

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**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**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

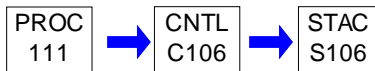
Source ID: 111

Source Name: SHOTBLAST MACHINE 1

Source Capacity/Throughput:

2.500 Tons/HR

CASTINGS

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

The permittee shall not permit the emission to the atmosphere of particulate matter from the source in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

Unless otherwise approved in writing, the permittee shall measure the pressure drop across the filter media once per shift during the operation of the source. The permittee shall use a pressure drop between 4 and 8 inches of water as the criteria for determining acceptable operation of the source. If the pressure drop across the collector is outside of this range six or more times during any 6-month period, the permittee shall follow the requirements of Condition #011 (QIP).

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall provide and maintain Department approved equipment to measure the pressure drop across the fabric collector.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall inspect the fabric collector and associated equipment for the following:

a. Quarterly:

1. Leaks in the exhaust ductwork to and from the collector
2. Leaks in the collector and associated equipment
3. Leaks in the waste collection system

b. Annually:

1. Wear in the exhaust fan, filter media, collector internal parts and collector housing
2. The waste removal system

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall maintain the recordings in a manner approved by the Department.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall record all inspections and calibrations of the monitoring device. Any adjustments, repairs and/or replacements shall be recorded. These shall include the date and personnel conducting the action.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.9, CAM]

The permittee shall record the results of the quarterly and annual equipment inspections in a manner approved by the Department. These records shall include any corrective actions taken.

V. REPORTING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.9, CAM]

The permittee shall report all malfunctions and excursions, corrective actions taken, dates, times, durations and possible causes of events to the Department every six months. This shall be part of the semi-annual compliance reports. The report shall include all monitoring down times not associated with malfunctions and/or excursions.

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall weekly inspect the manometer or equivalent to see that it returns to zero. If not it shall be zeroed. The tubing to and from the meter shall be checked for leakage and/or blockage, once per quarter. If a mechanical device is used to measure the pressure drop, the device shall be calibrated once per year.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

40 CFR 64.7(d)(1) Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

40 CFR 64.7(d)(2) Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of

**SECTION D. Source Level Requirements**

operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

VII. ADDITIONAL REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall develop and implement a quality improvement plan (QIP) if the following occurs:

The pressure drop across the filter media is outside of the appropriate operating range developed under condition #2, six or more times during any consecutive 6-month period.

The permittee shall record any actions taken to implement a QIP during a reporting period and all related actions including, but not limited to, inspections, repairs and maintenance performed on the monitoring equipment.

In accordance with 40 CFR Section 64.8, CAM, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the QIP shall be modified to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- a. Improved preventive maintenance practices
- b. Process operation changes
- c. Appropriate improvements in control methods
- d. Other steps appropriate to correct performance

Following implementation of the QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

- a. Address the cause of the control device performance problem
- b. Provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting, work practice and record keeping requirements that may apply under any federal, state or local laws or any other applicable requirement under the Clean Air Act.

***** Permit Shield in Effect. *****

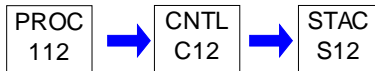
**SECTION D. Source Level Requirements**

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

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

The permittee shall limit the emission into the outdoor atmosphere of particulate matter from the sources at any time in a manner that the concentration of particulate matter in the effluent gas does not exceed 0.02 grains per dry standard cubic foot or in excess of the rates calculated by the following formula, whichever is greater:

$$A = 0.76E^{(0.42)}$$

where:

A = Allowable emissions in pounds per hour

E = Emission index = F x W pounds per hour

F = 20 pounds per ton of sand for the sand system, or

20 pounds per ton of sand for the shakeout

W = Production rate of the source in tons of sand per hour

002 [25 Pa. Code §129.91]**Control of major sources of NOx and VOCs**

The permittee shall limit the VOC emissions from the source to 31 tons during any consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall inspect the fabric collector and associated equipment for the following:

a. Quarterly:

1. Leaks in the exhaust ductwork to and from the collector
2. Leak in the collector and associated equipment
3. Leaks in the waste collection system

b. Annually:

1. Wear in the exhaust fan, filter media, collector internal parts and collector housing
2. The waste removal system

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

**SECTION D. Source Level Requirements**

The permittee shall provide and maintain Department approved equipment to measure the pressure drop across the fabric collector.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

Unless otherwise approved in writing by the Department, the permittee shall measure the pressure drop across the filter media once per shift during the operation of the source. The permittee shall use a pressure drop between 2 and 9 inches of water as the criteria for determining acceptable operation of the source. If the pressure drop across the collector is outside of this range six or more times during any 6-month period, the permittee shall follow the requirements of Condition #014 (QIP).

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Section 4.9, CAM]

The permittee shall record the results of the quarterly and annual equipment inspections in a manner approved by the Department. These records shall include any corrective actions taken.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Section 64.9, CAM]

The permittee shall report all malfunctions and excursions, corrective actions taken, dates, times, durations and possible causes of events to the Department every six months. This shall be part of the semi-annual compliance reports. The report shall include all monitoring down times not associated with malfunctions and/or excursions.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall record all inspections and calibrations of the monitoring device. Any adjustments, repairs and/or replacements shall be recorded. These shall include the date and personnel conducting the action.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall maintain the records in a manner approved by the Department.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall inspect the manometer or equivalent to see that it returns to zero. If not it shall be zeroed. The tubing to and from the meter shall be checked for leakage and/or blockage, once per quarter. If a mechanical device is used to

**SECTION D. Source Level Requirements**

measure the pressure drop, the device shall be calibrated once per year.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

40 CFR 64.7(d)(1) Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

40 CFR 64.7(d)(2) Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall develop and implement a quality improvement plan (QIP) if the following occurs:

The pressure drop across the filter media is outside of the limits developed under condition #005, six or more times during any consecutive 6-month period.

The permittee shall record any actions taken to implement a QIP during a reporting period and all related actions including, but not limited to, inspections, repairs and maintenance performed on the monitoring equipment.

In accordance with 40 CFR Section 64.8, CAM, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the QIP shall be modified to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- a. Improved preventive maintenance practices
- b. Process operation changes
- c. Appropriate improvements in control methods
- d. Other step appropriate to correct performance

Following implementation of the QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

1. Address the cause of the control device performance problem
2. Provide adequate procedures for correcting control device performance as expeditiously as practicable in accordance with good air pollution practices for minimizing emissions.

Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting, work practice and record keeping requirements that may apply under any federal, state or local laws or any other applicable requirement under the Clean Air Act.



SECTION D. Source Level Requirements

***** Permit Shield in Effect. *****

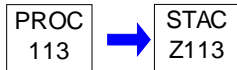
**SECTION D. Source Level Requirements**

Source ID: 113

Source Name: METALLIC SCRAP STORAGE AREAS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG03

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

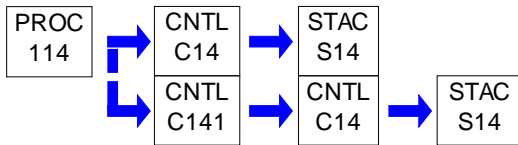
**SECTION D. Source Level Requirements**

Source ID: 114

Source Name: GRIT BLAST ROOM

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG01

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 115

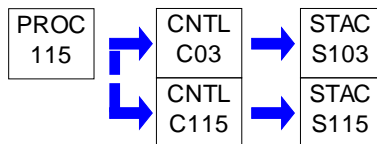
Source Name: KUNKEL WAGNER MOLDING LINE

Source Capacity/Throughput:

9.000 Tons/HR

IRON CASTINGS

Conditions for this source occur in the following groups: SG05

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall limit the pouring rate to 9 tons of castings per hour.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall limit the particulate emissions to 0.01 grains per dry standard cubic foot.

003 [25 Pa. Code §129.91]**Control of major sources of NOx and VOCs**

The permittee shall limit the VOC emissions from the source to 35 tons during any consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall inspect the fabric collector and associated equipment for the following:

a. Quarterly:

1. Leaks in the exhaust ductwork to and from the collector
2. Leak in the collector and associated equipment
3. Leaks in the waste collection system

b. Annually:

1. Wear in the exhaust fan, filter media, collector internal parts and collector housing
2. The waste removal system
3. Fugitive emissions
4. Cleaning cycles

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

Unless otherwise approved in writing by the Department, the permittee shall measure the pressure drop across the filter

**SECTION D. Source Level Requirements**

media once per shift during the operation of the source. The permittee shall use a pressure drop between 1 and 8 inches of water as the criteria for determining acceptable operation of the source. If the pressure drop across the collector is outside of this range six or more during any 6-month period, the permittee shall follow the requirements of Condition #014 (QIP).

IV. RECORDKEEPING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.9, CAM]

The permittee shall record the results of the quarterly and annual equipment inspections in a manner approved by the Department. These records shall include any corrective actions taken.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall record all inspections and calibrations of the monitoring device. Any adjustments, repairs and/or replacements shall be recorded. These shall include the date and personnel conducting the action.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall maintain all records in a manner approved by the Department.

V. REPORTING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.9, CAM]

The permittee shall report all malfunctions and excursions, corrective actions taken, dates, times, durations and possible causes of events to the Department every six months. This shall be part of the semi-annual compliance reports. The report shall include all monitoring down times not associated with malfunctions and/or excursions.

VI. WORK PRACTICE REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall weekly inspect the manometer or equivalent to see that it returns to zero. If not it shall be zeroed. The tubing to and from the meter shall be checked for leakage and/or blockage, once per quarter. If a mechanical device is used to measure the pressure drop, the device shall be calibrated once per year.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

40 CFR 64.7(d)(1) Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and

**SECTION D. Source Level Requirements**

evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

40 CFR 64.7(d)(2) Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.7, CAM]

The permittee shall maintain equipment (a differential manometer or equivalent, as approved by the Department) so that at any time the pressure drop across the fabric collectors can be measured.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this condition is derived from 40 CFR Section 64.8, CAM]

The permittee shall develop and implement a quality improvement plan (QIP) if the following occurs:

The pressure drop across the filter media is outside of the limits developed under condition #005, six or more times during any consecutive 6-month period.

The permittee shall record any actions taken to implement a QIP during a reporting period and all related actions including, but not limited to, inspections, repairs and maintenance performed on the monitoring equipment.

In accordance with 40 CFR Section 64.8, CAM, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the QIP shall be modified to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- a. Improved preventive maintenance practices
- b. Process operation changes
- c. Appropriate improvements in control methods
- d. Other step appropriate to correct performance

Following implementation of the QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

1. Address the cause of the control device performance problem
2. Provide adequate procedures for correcting control device performance as expeditiously as practicable in accordance with good air pollution practices for minimizing emissions.

Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting, work practice and record keeping requirements that may apply under any federal, state or local laws or any other applicable requirement under the Clean Air Act.

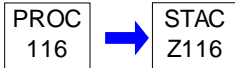
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 116

Source Name: COLD CLEANER

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §129.63]****Degreasing operations**

The permittee shall not use in a cold cleaning machine any solvent, with greater than 5% VOC by weight in the amount of 2 gallons or more, that has a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater measured at 20°C (68°F).

The above requirement does not apply:

- a. To cold cleaning machines used in extreme cleaning service.
- b. If the permittee demonstrates, and the Department approves in writing, that compliance with these conditions will result in unsafe operating conditions.
- c. To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

002 [25 Pa. Code §129.63]**Degreasing operations**

Any immersion cold cleaning machine shall have a freeboard ratio of 0.50 or greater.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §129.63]****Degreasing operations**

The permittee shall maintain an inventory of the cold cleaning machines used at the facility. The inventory shall be updated each January. The inventory shall include the following information:

1. Type of unit
2. Size of the unit in gallons of solvent
3. Solvent used
4. Freeboard ratio (if appropriate)
5. Location of the unit at the facility

The permittee shall maintain for at least two (2) years and shall provide to the Department, on request, the following information:

- a. The name and address of the solvent supplier.
- b. Type of solvent including the product or vendor identification number.
- c. The vapor pressure of the solvent measured in millimeters of mercury (mmHg) at 20°C (68°F).

**SECTION D. Source Level Requirements**

An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 004 [25 Pa. Code §129.63]****Degreasing operations**

The immersion cold cleaning machine shall be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than six (6) inches shall constitute an acceptable cover.

005 [25 Pa. Code §129.63]**Degreasing operations**

The permittee shall for immersion cold cleaning machines and remote reservoir cold cleaning machines:

a. Have a permanent, conspicuous label summarizing the operating requirements below:

1. Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
2. Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.
3. Sponge, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cleaning machine.
4. Air agitated solvent baths may not be used.
5. Spills during solvent transfer and use of cold cleaning machines shall be cleaned-up immediately.

b. In addition, the label shall include the following discretionary good practices:

1. Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that the solvent drains directly back to the cold cleaning machine.
2. When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.
3. Work area fans should be located and positioned so that they do not blow across the opening of the cold cleaning machine.

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §129.63]****Degreasing operations**

The permittee that operates a parts washer or cold cleaning machine that uses two gallons or more of solvent containing greater than 5% VOC by weight for the cleaning of metal parts shall comply with the requirements in this section.



SECTION D. Source Level Requirements

***** Permit Shield in Effect. *****

**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.**Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

The permittee shall limit the emission into the outdoor atmosphere of particulate matter from each of the sources, except Source 110, of this group at any time in a manner that the concentration of particulate matter in the effluent gas does not exceed 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not permit the emission into the outdoor atmosphere of sulfur oxides from the core oven, Source 110, in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall limit the Volatile Organic Compound (VOC) emissions from the core making operation, Source 110, to 20.65 tons during any consecutive 12-month period.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall limit the particulate emissions from the sand heater and handling system prior to the core making machines, Source 110, to 0.02 grains per dry standard cubic foot.

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:

- Binder in the mix - 1.7 percent, by weight, or less (annual average)
- Catalyst - 2.26 pounds per ton of sand or less (annual average)
- 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:

- Dimethylethylamine (DMEA):
 - 0.14 pounds per hour

**SECTION E. Source Group Restrictions.**

2. 0.15 tons during any consecutive 12-month period

b. Particulate: 0.01 grains per dry standard cubic foot

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.

II. TESTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to require a source test on the scrubber (C04) emissions at any time. This testing would be to determine the source's compliance with the emission limits within this permit.

The source testing should be performed while the core making operation is operating at the maximum rated capacity as stated in the latest plan approval application. If the maximum rate cannot be achieved, the source shall be operated at the maximum normal operating rate. The permittee shall request approval to operate in this manner prior to any testing.

III. MONITORING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The pressure drop across fabric collector C05 shall be recorded a minimum of once per week, while the source and collector is in operation. The recordings shall be maintained in a manner approved by the Department. If the measured pressure drop is outside of the manufacturer's specifications, the permittee shall take prompt corrective action.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records for the core making operation, Source 110, of emissions of particulate. All records shall be monthly and 12-month rolling totals. The records shall be made available to the Department upon request.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall annually calculate the following based on the usage records for the core making operation, Source 110:

- a. Percent by weight of resin in sand
- b. Ratio of catalyst to sand (pounds per ton)
- c. Volatile organic compounds per ton of cores produced (pounds per ton)

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Equipment (a differential manometer or equivalent, as approved by the Department), shall be provided and maintained so that at any time the pressure drop across the fabric collector C05 can be measured.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).



SECTION E. Source Group Restrictions.

***** Permit Shield in Effect. *****

**SECTION E. Source Group Restrictions.**

Group Name: SG02

Group Description: Boilers

Sources included in this group

ID	Name
031	BOILERS (>2.5 MMBTU)
032	BOILERS (<2.5 MMBTU)
033	MAKE-UP AIR UNITS

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person shall permit the emission into the outdoor atmosphere of particulate matter from each of the combustion units (Sources 31 & 32) in excess of 0.4 lbs/mmbtu.

002 [25 Pa. Code §123.13]**Processes**

The permittee shall limit the emissions of particulate matter to the outdoor atmosphere from the Source 33 in a manner that the concentration of particulate matter in the effluent gas does not exceed 0.04 grain per dry standard cubic foot.

003 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a process (Source 33) in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

004 [25 Pa. Code §123.22]**Combustion units**

The permittee shall limit the sulfur oxides, expressed as SO₂, from each of the combustion units (Source 31 & 32) to 4 pounds or less per million BTU of heat input over any one hour period.

Fuel Restriction(s).**# 005 [25 Pa. Code §123.22]****Combustion units**

The permittee shall not use commercial No. 2 fuel oil which contains sulfur in excess of 0.5%, by weight, in the combustion units (Sources 31 & 32).

006 [25 Pa. Code §123.22]**Combustion units**

Beginning July 1, 2016, the permittee shall not purchase No. 2 fuel oil with a sulfur content greater than 500 ppm.

Commercial fuel oil stored in this Commonwealth by the ultimate consumer prior to July 1, 2016, which met the applicable maximum allowable sulfur content for commercial fuel oil through June 30, 2016, at the time it was stored, may be used by the ultimate consumer in this Commonwealth on and after July 1, 2016.

Beginning July 1, 2016, the Department may temporarily suspend or increase the applicable maximum allowable sulfur content for a commercial fuel oil as set forth in 25 PA Code 123.22.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**SECTION E. Source Group Restrictions.****III. MONITORING REQUIREMENTS.****# 007 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall sample each shipment of fuel oil before use in the combustion units (Sources 31 & 32). As an alternative, the permittee shall obtain annually a certification for each oil supplier as to the sulfur and the heating value in BTUs of the oil as delivered and a delivery receipt with each delivery.

IV. RECORDKEEPING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain an inventory of the various sources. This inventory shall be updated by February 1 of each year. The inventory shall identify the source, the units within the source, the heat-input rates of each unit, the type of fuel used and the location in the facility.

009 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain records of the fuel types and amounts used by each source in this group. These records shall be submitted as part of the annual "AIMS" inventory report required in Section B of this permit.

V. REPORTING REQUIREMENTS.**# 010 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall submit fuel analysis reports received from the fuel suppliers or fuel analyses conducted by an individual laboratory along with the semiannual reports required in Section B of this permit.

VI. WORK PRACTICE REQUIREMENTS.**# 011 [25 Pa. Code §129.93]****Presumptive RACT emission limitations**

The permittee shall maintain and operate the sources in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

To meet the definition of gas-fired boilers in 40 CFR 63.11237, each boiler shall burn gaseous fuels not combined with any solid fuels and burn liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. For each boiler, periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

*** **Permit Shield in Effect.** ***

**SECTION E. Source Group Restrictions.**

Group Name: SG03

Group Description: Subpart ZZZZZ

Sources included in this group

ID	Name
101	IRON CUPOLA
113	METALLIC SCRAP STORAGE AREAS

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10880]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources Am I subject to this subpart?****APPLICABILITY AND COMPLIANCE DATES**

§63.10880 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate an iron and steel foundry that is an area source of hazardous air pollutant (HAP) emissions.

(b) This subpart applies to each new or existing affected source. The affected source is each iron and steel foundry.

(1) An affected source is existing if you commenced construction or reconstruction of the affected source before September 17, 2007.

(2) [NA - FACILITY IS EXISTING]

(c) On and after January 2, 2008, if your iron and steel foundry becomes a major source as defined in §63.2, you must meet the requirements of 40 CFR part 63, subpart EEEEE.

(d) [NA - NOT R&D FACILITY]

**SECTION E. Source Group Restrictions.**

(e) You are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not otherwise required by law to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a). Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart.

(f) [NA - REQUIREMENT IS IN THE PAST]

(g) [NA - FACILITY IS EXISTING]

§63.10881 What are my compliance dates?

(a) If you own or operate an existing affected source, you must achieve compliance with the applicable provisions of this subpart by the dates in paragraphs (a)(1) through (3) of this section.

(1) Not later than January 2, 2009 for the pollution prevention management practices for metallic scrap in §63.10885(a) and binder formulations in §63.10886.

(2) Not later than January 4, 2010 for the pollution prevention management practices for mercury in §63.10885(b).

(3) Except as provided in paragraph (d) of this section, not later than 2 years after the date of your large foundry's notification of the initial determination required in §63.10880(f) for the standards and management practices in §63.10895.

(b) [NA - FACILITY IS EXISTING]

(c) [NA - FACILITY IS EXISTING]

(d) Following the initial determination for an existing affected source required in §63.10880(f),

(1) Beginning January 1, 2010, if the annual metal melt production of your small foundry exceeds 20,000 tons during the preceding calendar year, you must submit a notification of foundry reclassification to the Administrator within 30 days and comply with the requirements in paragraphs (d)(1)(i) or (ii) of this section, as applicable.

(i) If your small foundry has never been classified as a large foundry, you must comply with the requirements for a large foundry no later than 2 years after the date of your foundry's notification that the annual metal melt production exceeded 20,000 tons.

(ii) If your small foundry had previously been classified as a large foundry, you must comply with the requirements for a large foundry no later than the date of your foundry's most recent notification that the annual metal melt production exceeded 20,000 tons.

(2) If your facility is initially classified as a large foundry (or your small foundry subsequently becomes a large foundry), you must comply with the requirements for a large foundry for at least 3 years before reclassifying your facility as a small foundry, even if your annual metal melt production falls below 20,000 tons. After 3 years, you may reclassify your facility as a small foundry provided your annual metal melt production for the preceding calendar year was 20,000 tons or less. If you reclassify your large foundry as a small foundry, you must submit a notification of reclassification to the Administrator within 30 days and comply with the requirements for a small foundry no later than the date you notify the Administrator of the reclassification. If the annual metal melt production exceeds 20,000 tons during a subsequent year, you must submit a notification of reclassification to the Administrator within 30 days and comply with the requirements for a large foundry no later than the date you notify the Administrator of the reclassification.

(e) Following the initial determination for a new affected source required in §63.10880(g),

(1) If you increase the annual metal melt capacity of your small foundry to exceed 10,000 tons, you must submit a notification of reclassification to the Administrator within 30 days and comply with the requirements for a large foundry no later than the startup date for the new equipment, if applicable, or the date of issuance for your revised State or Federal operating permit.

(2) If your facility is initially classified as a large foundry (or your small foundry subsequently becomes a large foundry), you

**SECTION E. Source Group Restrictions.**

must comply with the requirements for a large foundry for at least 3 years before reclassifying your facility as a small foundry. After 3 years, you may reclassify your facility as a small foundry provided your most recent annual metal melt capacity is 10,000 tons or less. If you reclassify your large foundry as a small foundry, you must notify the Administrator within 30 days and comply with the requirements for a small foundry no later than the date your melting equipment was removed or taken out of service, if applicable, or the date of issuance for your revised State or Federal operating permit.

POLLUTION PREVENTION MANAGEMENT PRACTICES FOR NEW AND EXISTING AFFECTED SOURCES

§63.10885 What are my management practices for metallic scrap and mercury switches?

(a) Metallic scrap management program. For each segregated metallic scrap storage area, bin or pile, you must comply with the materials acquisition requirements in paragraph (a)(1) or (2) of this section. You must keep a copy of the material specifications onsite and readily available to all personnel with material acquisition duties, and provide a copy to each of your scrap providers. You may have certain scrap subject to paragraph (a)(1) of this section and other scrap subject to paragraph (a)(2) of this section at your facility provided the metallic scrap remains segregated until charge make-up.

(1) Restricted metallic scrap. You must prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated plastics, or free liquids. For the purpose of this subpart, "free liquids" is defined as material that fails the paint filter test by EPA Method 9095B, "Paint Filter Liquids Test" (revision 2), November 2004 (incorporated by reference—see §63.14). The requirements for no free liquids do not apply if the owner or operator can demonstrate that the free liquid is water that resulted from scrap exposure to rain.

(2) General iron and steel scrap. You must prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel foundry. The materials specifications must include at minimum the information specified in paragraph (a)(2)(i) or (ii) of this section.

(i) [NA - FACILITY HAS CUPOLA/AFTERBURNER]

(ii) For scrap charged to a cupola metal melting furnace that is equipped with an afterburner, specifications for metallic scrap materials to be depleted (to the extent practicable) of the presence of chlorinated plastics, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.

(b) Mercury requirements. For scrap containing motor vehicle scrap, you must procure the scrap pursuant to one of the compliance options in paragraphs (b)(1), (2), or (3) of this section for each scrap provider, contract, or shipment. For scrap that does not contain motor vehicle scrap, you must procure the scrap pursuant to the requirements in paragraph (b)(4) of this section for each scrap provider, contract, or shipment. You may have one scrap provider, contract, or shipment subject to one compliance provision and others subject to another compliance provision.

(1) [NA - FACILITY DOES NOT USE MOTOR VEHICLE SCRAP EXCEPT PER 63.10885(b)(3)]

(2) [NA - FACILITY DOES NOT USE MOTOR VEHICLE SCRAP EXCEPT PER 63.10885(b)(3)]

(3) Option for specialty metal scrap. You must certify in your notification of compliance status and maintain records of documentation that the only materials from motor vehicles in the scrap are materials recovered for their specialty alloy (including, but not limited to, chromium, nickel, molybdenum, or other alloys) content (such as certain exhaust systems) and, based on the nature of the scrap and purchase specifications, that the type of scrap is not reasonably expected to contain mercury switches.

(4) Scrap that does not contain motor vehicle scrap. For scrap not subject to the requirements in paragraphs (b)(1) through (3) of this section, you must certify in your notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.

§63.10886 What are my management practices for binder formulations?

**SECTION E. Source Group Restrictions.**

For each furfuryl alcohol warm box mold or core making line at a new or existing iron and steel foundry, you must use a binder chemical formulation that does not use methanol as a specific ingredient of the catalyst formulation. This requirement does not apply to the resin portion of the binder system.

REQUIREMENTS FOR NEW AND EXISTING AFFECTED SOURCES CLASSIFIED AS SMALL FOUNDRIES

§63.10890 What are my management practices and compliance requirements? [NA - NOT A SMALL FOUNDRY]

REQUIREMENTS FOR NEW AND EXISTING AFFECTED SOURCES CLASSIFIED AS LARGE IRON AND STEEL FOUNDRIES

§63.10895 What are my standards and management practices?

(a) If you own or operate an affected source that is a large foundry as defined in §63.10906, you must comply with the pollution prevention management practices in §§63.10885 and 63.10886, the requirements in paragraphs (b) through (e) of this section, and the requirements in §§63.10896 through 63.10900.

(b) You must operate a capture and collection system for each metal melting furnace at a new or existing iron and steel foundry unless that furnace is specifically uncontrolled as part of an emissions averaging group. Each capture and collection system must meet accepted engineering standards, such as those published by the American Conference of Governmental Industrial Hygienists.

(c) You must not discharge to the atmosphere emissions from any metal melting furnace or group of all metal melting furnaces that exceed the applicable limit in paragraph (c)(1) or (2) of this section. When an alternative emissions limit is provided for a given emissions source, you are not restricted in the selection of which applicable alternative emissions limit is used to demonstrate compliance.

(1) For an existing iron and steel foundry, 0.8 pounds of particulate matter (PM) per ton of metal charged or 0.06 pounds of total metal HAP per ton of metal charged.

(2) [NA - FACILITY IS EXISTING]

(d) [NA - FACILITY IS EXISTING]

(e) If you own or operate a new or existing iron and steel foundry, you must not discharge to the atmosphere fugitive emissions from foundry operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 30 percent.

§63.10896 What are my operation and maintenance requirements?

(a) You must prepare and operate at all times according to a written operation and maintenance (O&M) plan for each control device for an emissions source subject to a PM, metal HAP, or opacity emissions limit in §63.10895. You must maintain a copy of the O&M plan at the facility and make it available for review upon request. At a minimum, each plan must contain the following information:

(1) General facility and contact information;

(2) Positions responsible for inspecting, maintaining, and repairing emissions control devices which are used to comply with this subpart;

(3) Description of items, equipment, and conditions that will be inspected, including an inspection schedule for the items, equipment, and conditions. For baghouses that are equipped with bag leak detection systems, the O&M plan must include the site-specific monitoring plan required in §63.10897(d)(2).

(4) Identity and estimated quantity of the replacement parts that will be maintained in inventory; and

(5) [NA - FACILITY IS EXISTING]

**SECTION E. Source Group Restrictions.**

(b) You may use any other O&M, preventative maintenance, or similar plan which addresses the requirements in paragraph (a)(1) through (5) of this section to demonstrate compliance with the requirements for an O&M plan.

§63.10897 What are my monitoring requirements?

(a) You must conduct an initial inspection of each PM control device for a metal melting furnace at an existing affected source. You must conduct each initial inspection no later than 60 days after your applicable compliance date for each installed control device which has been operated within 60 days of the compliance date. For an installed control device which has not operated within 60 days of the compliance date, you must conduct an initial inspection prior to startup of the control device. Following the initial inspections, you must perform periodic inspections and maintenance of each PM control device for a metal melting furnace at an existing affected source. You must perform the initial and periodic inspections according to the requirements in paragraphs (a)(1) through (4) of this section. You must record the results of each initial and periodic inspection and any maintenance action in the logbook required in §63.10899(b)(13).

(1) [NA - NO BAGHOUSE ON CUPOLA]

(2) [NA - NO ESP ON CUPOLA]

(3) [NA - NO ESP ON CUPOLA]

(4) For the initial inspection of each wet scrubber, you must verify the presence of water flow to the scrubber. You must also visually inspect the system ductwork and scrubber unit for leaks and inspect the interior of the scrubber for structural integrity and the condition of the demister and spray nozzle. Following the initial inspection, you must inspect and maintain each wet scrubber according to the requirements in paragraphs (a)(4)(i) through (iii) of this section.

(i) You must conduct a daily inspection to verify the presence of water flow to the scrubber.

(ii) You must conduct monthly visual inspections of the system ductwork and scrubber unit for leaks.

(iii) You must conduct inspections of the interior of the scrubber to determine the structural integrity and condition of the demister and spray nozzle every 12 months.

(b) [NA - FACILITY IS EXISTING]

(c) [NA - FACILITY IS EXISTING]

(d) [NA - NO BAGHOUSE ON CUPOLA]

(e) You must make monthly inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (e.g., presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). You must repair any defect or deficiency in the capture system as soon as practicable, but no later than 90 days. You must record the date and results of each inspection and the date of repair of any defect or deficiency.

(f) You must install, operate, and maintain each CPMS or other measurement device according to your O&M plan. You must record all information needed to document conformance with these requirements.

(g) In the event of an exceedance of an established emissions limitation (including an operating limit), you must restore operation of the emissions source (including the control device and associated capture system) to its normal or usual manner or operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the exceedance. You must record the date and time correction action was initiated, the correction action taken, and the date corrective action was completed.

(h) [NA - EMISSIONS AVERAGING NOT USED]

**SECTION E. Source Group Restrictions.**

§63.10898 What are my performance test requirements?

(a) [INITIAL COMPLIANCE IS IN THE PAST]

(b) You must conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP emissions limits in §63.10895(c) for a metal melting furnace or group of all metal melting furnaces no less frequently than every 5 years and each time you elect to change an operating limit or make a process change likely to increase HAP emissions.

(c) You must conduct each performance test according to the requirements in §63.7(e)(1), Table 1 to this subpart, and paragraphs (d) through (g) of this section. [TABLE 1 INCORPORATED BY REFERENCE]

(d) To determine compliance with the applicable PM or total metal HAP emissions limit in §63.10895(c) for a metal melting furnace in a lb/ton of metal charged format, compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this section:

[SEE REGULATION FOR EQUATION]

(e) [NA - EMISSIONS AVERAGING NOT USED]

(f) [NA - EMISSIONS STREAMS NOT COMBINED]

(g) [NA - CUPOLA IS ONLY MELTING FURNACE]

(h) You must conduct each opacity test for fugitive emissions according to the requirements in §63.6(h)(5) and Table 1 to this subpart.

(i) You must conduct subsequent performance tests to demonstrate compliance with the opacity limit in §63.10895(e) no less frequently than every 6 months and each time you make a process change likely to increase fugitive emissions.

(j) In your performance test report, you must certify that the capture system operated normally during the performance test.

(k) [NA - SOURCE IS EXISTING]

(l) [NA - SOURCE IS EXISTING]

§63.10899 What are my recordkeeping and reporting requirements?

(a) As required by §63.10(b)(1), you must maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

(b) In addition to the records required by 40 CFR 63.10, you must keep records of the information specified in paragraphs (b)(1) through (13) of this section.

(1) You must keep records of your written materials specifications according to §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in §63.10885(a)(1) and/or for the use of general scrap in §63.10885(a)(2) and for mercury in §63.10885(b)(1) through (3), as applicable. You must keep records documenting compliance with §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.

(2) [NA - FACILITY DOES NOT USE MOTOR VEHICLE SCRAP EXCEPT PER 63.10885(b)(3)]

(3) [NA - FACILITY DOES NOT USE MOTOR VEHICLE SCRAP EXCEPT PER 63.10885(b)(3)]

(4) You must keep records to document use of any binder chemical formulation that does not contain methanol as a

**SECTION E. Source Group Restrictions.**

specific ingredient of the catalyst formulation for each furfuryl alcohol warm box mold or core making line as required by §63.10886. These records must be the Material Safety Data Sheet (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet.

(5) You must keep records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records must be copies of purchasing records, Material Safety Data Sheets, or other documentation that provide information on the binder or coating materials used.

(6) You must keep records of monthly metal melt production for each calendar year.

(7) You must keep a copy of the operation and maintenance plan as required by §63.10896(a) and records that demonstrate compliance with plan requirements.

(8) [NA - EMISSIONS AVERAGING NOT USED]

(9) [NA - NO BAGHOUSE ON CUPOLA]

(10) You must keep records of capture system inspections and repairs as required by §63.10897(e).

(11) [NA - CPMS NOT REQUIRED]

(12) You must keep records of corrective action(s) for exceedances and excursions as required by §63.10897(g).

(13) You must record the results of each inspection and maintenance required by §63.10897(a) for PM control devices in a logbook (written or electronic format). You must keep the logbook onsite and make the logbook available to the Administrator upon request. You must keep records of the information specified in paragraphs (b)(13)(i) through (iii) of this section.

(i) [NA - NO BAGHOUSE ON CUPOLA]

(ii) [NA - NO ESP ON CUPOLA]

(iii) The date and time of each recorded action for a wet scrubber (including ductwork), the results of each inspection, and the results of any maintenance performed on the wet scrubber.

(c) You must submit semiannual compliance reports to the Administrator according to the requirements in §63.10(e). The reports must include, at a minimum, the following information as applicable:

(1) Summary information on the number, duration, and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective action taken;

(2) Summary information on the number, duration, and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other calibration checks, if applicable); and

(3) Summary information on any deviation from the pollution prevention management practices in §§63.10885 and 63.10886 and the operation and maintenance requirements §63.10896 and the corrective action taken.

(d) You must submit written notification to the Administrator of the initial classification of your new or existing affected source as a large iron and steel facility as required in §63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in §63.10881(d) or (e), as applicable.

§63.10900 What parts of the General Provisions apply to my large foundry?

(a) If you own or operate a new or existing affected source that is classified as a large foundry, you must comply with the requirements of the General Provisions (40 CFR part 63, subpart A) according to Table 3 of this subpart. [TABLE 3 INCORPORATED BY REFERENCE]

**SECTION E. Source Group Restrictions.**

(b) If you own or operator a new or existing affected source that is classified as a large foundry, your notification of compliance status required by §63.9(h) must include each applicable certification of compliance, signed by a responsible official, in Table 4 of this subpart. [TABLE 4 INCORPORATED BY REFERENCE]

OTHER REQUIREMENTS AND INFORMATION

§63.10905 Who implements and enforces this subpart? [INCORPORATED BY REFERENCE]

§63.10906 What definitions apply to this subpart? [INCORPORATED BY REFERENCE]

Regulatory Changes

Individual sources within this source group that are subject to 40 CFR Part 63 Subpart ZZZZ shall comply with all applicable requirements of the Subpart. 40 CFR 63.13(a) requires submission of copies of all requests, reports and other communications to both the Department and the EPA. The EPA copies shall be forwarded to:

Director
Air Protection Division (3AP00)
U.S. EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

***** Permit Shield in Effect. *****

**SECTION E. Source Group Restrictions.**

Group Name: SG04

Group Description: RACT 2 presumptive

Sources included in this group

ID	Name
031	BOILERS (>2.5 MMBTU)
032	BOILERS (<2.5 MMBTU)
033	MAKE-UP AIR UNITS
034	SPACE HEATERS

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 001 [25 Pa. Code §129.97]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

129.97(c) The owner and operator of a source specified in this subsection, which is located at a major NOx emitting facility or major VOC emitting facility subject to §129.96 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices: (3) A boiler or other combustion source with an individual rated gross heat input less than 20 million Btu/hour.

*** **Permit Shield in Effect.** ***

**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

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

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 thruptut 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.

***** Permit Shield in Effect. *****



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this permit.



SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

#001

The sources included in Source 104 (Seven Sand Silos and Bins) are the following:

- a. 40 ton Bond Sand Silo for Old Hydroslinger
- b. 60 ton No Bake Sand Silo (#13)
- c. 250 ton Facing Mullor Sand Silo (#10)
- d. 102 ton Mold Sand Silo for New Hydroslinger
- e. 250 ton Isocure Core Sand Silo
- f. 5 ton Core Oven Sand Bin for Machine #1
- g. 5 ton Core Oven Sand Bin for Machine #2

#002

The sources included in Source 112 (Hydroslinger Sand System) are the following:

- a. HydroSlinger-2 (B&P) or equivalent
- b. Shakeout (General Kinematics) or equivalent
- c. Mag Separator (Metal Cast) or equivalent
- d. No. 1 Bucket Elevator (Metal Cast) or equivalent
- e. Rotary Screen (Metal Cast) or equivalent
- f. Water System (Metal Cast) or equivalent
- g. Coolerator (Pekan) or equivalent
- h. Cooler (General Kinematics) or equivalent
- i. No. 2 Bucket Elevator (Metal Cast) or equivalent
- j. Two Sand Bins (Metal Cast) or equivalent
- k. New Sand Addition (Metal Cast) or equivalent
- l. Pouring/cooling (Metal Cast) or equivalent

#003

The sources included in the Source 115 (Kunkel Wagner Molding Line) are the following:

- a. Molding Line
- b. Pouring Line
- c. Cooling Line & Room
- d. New Shakeout Machine
- e. Old Shakeout Machine (formerly Source 102)
- f. Associate Equipment and parts of the Sand System

#004

The following sources and activities are not subject to any specific work practice standards, testing, monitoring, recordkeeping or reporting requirements: Source 102 Casting Shaker

#005

This Title V Operating Permit is a renewal of Operating Permit 06-05063 issued July 15, 2015, modified February 21, 2020, and supercedes that permit. The modification addressed RACT 2 for the facility.



***** End of Report *****
