



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

**STATE ONLY SYNTHETIC MINOR OPERATING PERMIT**

Issue Date: March 14, 2023

Effective Date: March 14, 2023

Expiration Date: March 13, 2028

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 unless otherwise designated.

**State Only Permit No: 59-00017**

Synthetic Minor

Federal Tax Id - Plant Code: 22-1501729-7

**Owner Information**

Name: VICTAULIC CO  
Mailing Address: PO BOX 31  
EASTON, PA 18044-0031

**Plant Information**

Plant: VICTAULIC CO/LAWRENCEVILLE PLT  
Location: 59 Tioga County 59921 Lawrence Township  
SIC Code: 3321 Manufacturing - Gray And Ductile Iron Foundries

**Responsible Official**

Name: ROCCO BARA  
Title: CHIEF FOUNDRY ENG  
Phone: (610) 559 - 3416 Email: rocco.bara@victaulic.com

**Permit Contact Person**

Name: KRAIG HUME  
Title: GLOBAL ENV MGR  
Phone: (610) 559 - 3476 Email: kraig.hume@victaulic.com

[Signature] \_\_\_\_\_  
MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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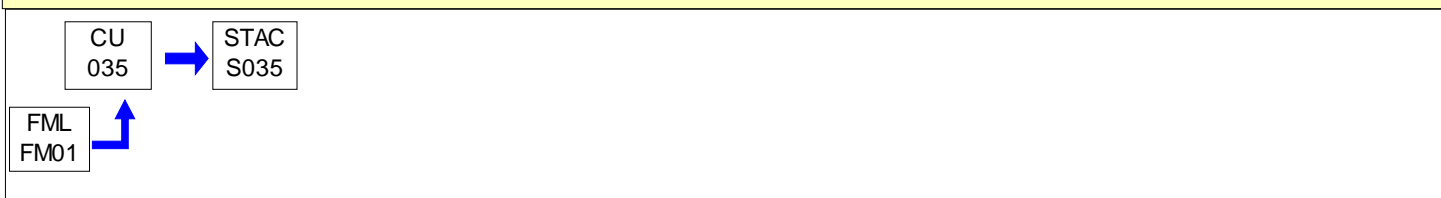
### Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
035	COMBUSTION SOURCES <10 MMBTU/HR		
P201	TWO CORELESS ELECTRIC INDUCTION FURNACES		
P202	HOLDING FURNACE AND INOCULATION STATION		
P203	LINE 2070 POURING STATION AND MOLD COOLING LINE		
P204	LINE 2070 VIBRATING SHAKEOUT CONVEYOR SYSTEM		
P205	LINE 2070 COOLING/SEPARATION DRUM		
P206	LINE 2070 DESPRUING CONVEYOR AND SHOTBLAST MACHINE		
P207	LINE 2013 POURING STATION AND MOLD COOLING LINE		
P208	LINE 2013 VIBRATING SHAKEOUT CONVEYOR SYSTEM		
P209	LINE 2013 COOLING/SEPARATION DRUM		
P210	LINE 2013 DESPRUING CONVEYOR AND SHOTBLAST MACHINE		
P211	REJECT MOLD CONVEYORS AND SHAKEOUTS		
P212	RETURN SAND COLLECTION CONVEYOR SYSTEM		
P213	RETURN SAND ROTARY SCREEN AND ASSOCIATED CONVEYORS		
P214	FLUID BED SAND COOLER, BUCKET ELEVATOR & CONVEYORS		
P215	TUMBLAST MACHINE		
P216	DUST STORAGE SILOS		
P217	SAND/BINDER STORAGE SILOS		
P217A	SAND/BINDER STORAGE SILOS		
P218	SHELL CORE OPERATION		
P219	PHENOLIC URETHANE COLD BOX CORE OPERATION		
P223	EMERGENCY GENERATOR		
P223A	EMERGENCY GENERATOR		
C201	AMEREX FABRIC COLLECTOR (BDC-01)		
C202	AMEREX FABRIC COLLECTOR (BDC-02)		
C203	C&W MANUFACTURING BP7900C-NR-SP FABRIC COLLECTOR		
C204	AMEREX FABRIC COLLECTOR (BDC-10)		
C205	AMEREX FABRIC COLLECTOR (BDC-09)		
C206	AMEREX FABRIC COLLECTOR (BDC-12)		
C207	C&W MANUFACTURING BP7900C-NR-SP FABRIC COLLECTOR		
C208	AMEREX FABRIC COLLECTOR (BDC-11)		
C209	AMEREX FABRIC COLLECTOR (BDC-08)		
C210	AMEREX FABRIC COLLECTOR (BDC-13)		
C211	AMEREX FABRIC COLLECTOR (BDC-07)		
C212	AMEREX FABRIC COLLECTOR (BDC-05)		

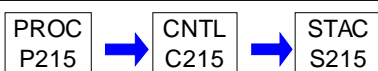
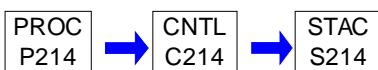
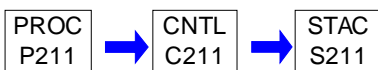
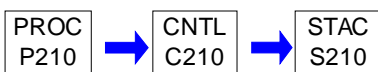
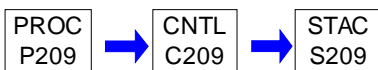
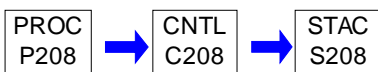
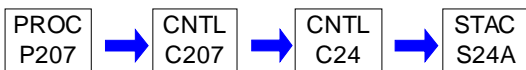
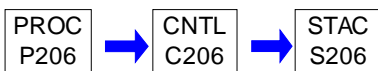
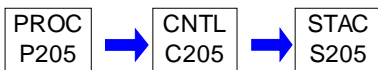
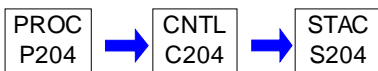
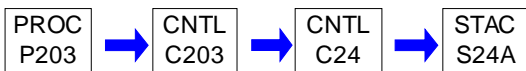
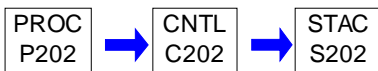
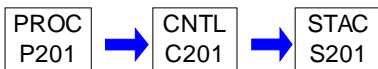
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C213	AMEREX FABRIC COLLECTOR (BDC-06)		
C214	AMEREX FABRIC COLLECTOR (BDC-14)		
C215	AMEREX FABRIC COLLECTOR (BDC-15)		
C216	BIN VENT FABRIC COLLECTOR		
C217	BIN VENT FABRIC COLLECTORS		
C217A	BIN VENT FABRIC COLLECTORS		
C219	PACKED BED SCRUBBER		
C219A	PACKED BED SCRUBBER		
C24	REGENERATIVE THERMAL OXIDIZER		
FM01	NATURAL GAS		
FM02	DIESEL FUEL		
S035	COMBUSTION SOURCE STACKS		
S201	STACK (BDC-01)		
S202	STACK (BDC-02)		
S204	STACK (BDC-10)		
S205	STACK (BDC-09)		
S206	STACK (BDC-12)		
S208	STACK (BDC-11)		
S209	STACK (BDC-08)		
S210	STACK (BDC-13)		
S211	STACK (BDC-07)		
S212	STACK (BDC-05)		
S213	STACK (BDC-06)		
S214	STACK (BDC-14)		
S215	STACK (BDC-15)		
S216	BIN VENT STACK		
S217	BIN VENT STACKS		
S217A	BIN VENT STACKS		
S219	SCRUBBER STACK		
S219A	SCRUBBER STACK		
S223	GENERATOR STACK		
S223A	GENERATOR STACK		
S24A	RTO STACK		
Z218	FUGITIVE VOCS		

**PERMIT MAPS**

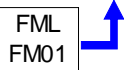
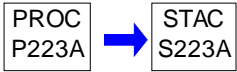
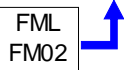
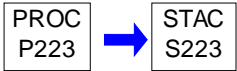
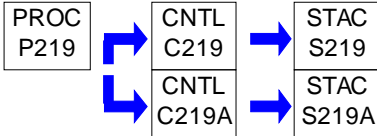
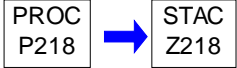
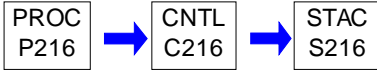


## PERMIT MAPS





**PERMIT MAPS**



**SECTION B. General State Only 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 in 25 Pa. Code § 121.1.

**#002 [25 Pa. Code § 127.446]****Operating Permit Duration.**

- (a) 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.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating 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.

**#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)]****Permit Renewal.**

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. 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.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) 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.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) 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 as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

**#004 [25 Pa. Code § 127.703]****Operating Permit Fees under Subchapter I.**

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
- (1) For a synthetic minor facility, a fee equal to:
- (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
  - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
  - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.



**SECTION B. General State Only Requirements**

(2) For a facility that is not a synthetic minor, a fee equal to:

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

(b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

**#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]****Transfer of Operating Permits.**

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and 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 a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

**#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]****Inspection and Entry.**

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

(1) Enter at reasonable times upon the permittee's premises where a 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, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any 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, any 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 or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

(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.

**#007 [25 Pa. Code §§ 127.441 & 127.444]****Compliance Requirements.**

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

**SECTION B. General State Only Requirements**

- (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 for the source is 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 State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

**#008 [25 Pa. Code § 127.441]****Need to Halt or Reduce Activity Not a Defense.**

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

**#009 [25 Pa. Code §§ 127.442(a) & 127.461]****Duty to Provide Information.**

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

**#010 [25 Pa. Code § 127.461]****Revising an Operating Permit for Cause.**

This operating permit may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

**#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]****Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

**SECTION B. General State Only Requirements**

(b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

(e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

**#012 [25 Pa. Code § 127.441]****Severability Clause.**

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

**#013 [25 Pa. Code § 127.449]****De Minimis Emission Increases.**

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. 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.

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

(c) Except as provided below in (d), the permittee is authorized 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<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> 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 PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> 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, the regulations thereunder 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, the regulations thereunder or 25 Pa. Code Article III.

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

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

**SECTION B. General State Only Requirements**

- (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 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.
  - (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.
- (e) 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 (c)(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 this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (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, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making 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.

**#014 [25 Pa. Code § 127.3]****Operational Flexibility.**

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

- (1) Section 127.14 (relating to exemptions)
- (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)

**SECTION B. General State Only Requirements**

(6) Section 127.462 (relating to minor operating permit modifications)

(7) Subchapter H (relating to general plan approvals and general operating permits)

**#015 [25 Pa. Code § 127.11]****Reactivation**

(a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).

(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).

**#016 [25 Pa. Code § 127.36]****Health Risk-based Emission Standards and Operating Practice Requirements.**

(a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].

(b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

**#017 [25 Pa. Code § 121.9]****Circumvention.**

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 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

**#018 [25 Pa. Code §§ 127.402(d) & 127.442]****Reporting Requirements.**

(a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.

(b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.

(c) 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 in the permit transmittal letter, or otherwise notified)

(d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.

(e) Any records, reports or information submitted to the Department shall be available to the public except for such

**SECTION B. General State Only Requirements**

records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

**#019 [25 Pa. Code §§ 127.441(c) & 135.5]****Sampling, Testing and Monitoring Procedures.**

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

**#020 [25 Pa. Code §§ 127.441(c) and 135.5]****Recordkeeping.**

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

- (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 any 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.

(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.

**#021 [25 Pa. Code § 127.441(a)]****Property Rights.**

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

**#022 [25 Pa. Code § 127.447]****Alternative Operating Scenarios.**

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

**SECTION B. General State Only Requirements****#023 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, 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 of a Synthetic Minor Facility 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.

**#024 [25 Pa. Code §135.4]****Report Format**

If applicable, the 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**

The permittee shall not permit the emission of fugitive air contaminants into the outdoor atmosphere from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) 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.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Blasting in open pit mines. Emissions from drilling are not considered emissions from blasting.
- (8) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
  - (a) The emissions are of minor significance with respect to causing air pollution; and
  - (b) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

The permittee shall not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in (1) through (8) in condition #001 herein if the emissions are visible at the point the emissions pass outside the permittee's property.

**# 003 [25 Pa. Code §123.41]****Limitations**

The permittee shall not permit the emission of visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission is either of the following:

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

**# 004 [25 Pa. Code §123.42]****Exceptions**

The emission limitations of 25 Pa Code Section 123.41 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations;
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- (3) The emissions results from sources specified in (1) through (8) in condition #001 herein.

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

[Additional authority for this permit condition is derived from the permittee electing these Synthetic Minor restrictions.]

- (1) The total combined particulate matter emissions from all sources at the facility shall not exceed 99.90 tons in any 12 consecutive month period.
- (2) The total combined volatile organic compound emissions from all sources at the facility shall not equal or exceed 50 tons in any 12 consecutive month period.

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

The total combined emission of any one hazardous air pollutant from all sources at the facility shall not equal or exceed 10.00 tons in any 12 consecutive month period and the total combined emission of all hazardous air pollutants from all sources at the facility shall not equal or exceed 25.00 tons in any 12 consecutive month period.



**SECTION C. Site Level Requirements****# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10895]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources****What are my standards and management practices?**

The permittee shall 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.

**Throughput Restriction(s).****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the permittee volunteering to accept it as a restriction]

Scrap processed at this facility shall not contain motor vehicle scrap.

Compliance with this permit condition also ensures compliance with the management practices for mercury switches provisions specified in 40 CFR 63.10885, as required pursuant to 40 CFR 63.10895.

**II. TESTING REQUIREMENTS.****# 009 [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 a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. Electronic copies shall be sent to the Northcentral Regional Office Air Quality Program Manager and the PSIMS Administrator in Central Office. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(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 Northcentral 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) If applicable, pursuant to 40 CFR § 60.8(a), 40 CFR § 61.13(f) and 40 CFR § 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.

(d) Pursuant to 25 Pa. Code § 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 noncompliance 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.

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

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

(g) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3), electronic copies of all submittals, besides notifications, shall be sent to the Northcentral Regional Office Air Quality Program Manager, with deadlines verified. In addition, an electronic copy shall be sent to the PSIMS Administrator in Central Office. Email addresses are provided on the PA DEP website.

(h) The permittee shall insure 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.

**SECTION C. Site Level Requirements****# 010 [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 a source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

**# 011 [25 Pa. Code §139.11]****General requirements.**

(1) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the respective source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(2) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:

- (a) A thorough source description, including a description of any air cleaning devices and the flue.
- (b) Process conditions, for example, the charging rate of raw materials or the rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process.
- (c) The location of sampling ports.
- (d) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub>), static and barometric pressures.
- (e) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (f) Laboratory procedures and results.
- (g) Calculated results.

**III. MONITORING REQUIREMENTS.****# 012 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

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

The permittee shall monitor the regenerative thermal oxidizer (C24) combustion chamber outlet temperature any time the regenerative thermal oxidizer is controlling air contaminant emissions from either P203 or P207.

**IV. RECORDKEEPING REQUIREMENTS.****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

- (1) The amount of particulate matter emitted from each source in the facility each month, as well as a copy of the calculations performed to determine the respective emission values and a copy of all supporting documentation.
- (2) The amount of volatile organic compounds emitted from each source in the facility each month, as well as a copy of the calculations performed to determine the respective emission values and a copy of all supporting documentation.
- (3) The amount of each individual hazardous air pollutant emitted from each source in the facility each month, as well as a copy of the calculations performed to determine the respective emission values and a copy of all supporting documentation.
- (4) The total combined amount of all hazardous air pollutants emitted from each source in the facility each month, as well as a copy of the calculations performed to determine the respective emission values and a copy of all supporting documentation.

**SECTION C. Site Level Requirements**

All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

The permittee shall record the regenerative thermal oxidizer (C24) combustion chamber outlet temperature during times the regenerative thermal oxidizer is controlling air contaminant emissions from either P203 or P207. These records shall be retained for at least five (5) years and submitted to the Department upon request.

**# 016 [25 Pa. Code §135.5]****Recordkeeping**

The permittee shall maintain such records including computerized records as may be necessary to comply with 25 Pa. Code Sections 135.3 and 135.21. These 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.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10885]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my management practices for metallic scrap and mercury switches?**

[Additional authority for this permit condition is also derived from 40 CFR 63.10899]

The permittee shall maintain records which document that scrap purchased for use at this facility does not contain motor vehicle scrap.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10885]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my management practices for metallic scrap and mercury switches?**

[Additional authority for this permit condition is also derived from 40 CFR 63.10899]

The permittee shall maintain a copy of the material specifications for each segregated metallic scrap storage area, bin or pile at the facility which demonstrates compliance with the requirements for restricted metallic scrap and/or the use of general scrap specified in condition #027 herein. The material specifications shall be kept on site and be readily available to all personnel with material acquisition duties, and a copy shall be provided to each scrap provider.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10899]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my recordkeeping and reporting requirements?**

The permittee shall maintain accurate and comprehensive records of the annual quantity and composition of each hazardous air pollutant-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 provides information on the binder or coating materials used.

All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**SECTION C. Site Level Requirements****V. REPORTING REQUIREMENTS.****# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit all requested reports in accordance with the Department's suggested format.

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

The permittee shall submit the following records to the Department on a semi-annual basis:

- (1) The amount of particulate matter emitted from each source in the facility each month during the respective six month period.
- (2) The amount of volatile organic compounds emitted from each source in the facility each month during the respective six month period.
- (3) The amount of each individual hazardous air pollutant emitted from each source in the facility each month during the respective six month period.
- (4) The total combined amount of all hazardous air pollutants emitted from each source in the facility each month during the respective six month period.

The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period. The reports shall include all supporting documentation used and/or calculations performed in the determination of the reported monthly emissions values.

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

The submission of all requests, reports, applications, submittals and other communications required by the Standards of Performance for New Stationary Sources (40 CFR Part 60) and/or the National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 63) shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

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

For each reporting condition included in this operating permit that requires a semi-annual submission of data by March 1 and September 1 of each year, the permittee may substitute the data included in the annual Air Information Management Systems (AIMS) report for the semi-annual reports due by March 1 of each year. The submission of the annual AIMS report is sufficient to comply with the semi-annual reports due by March 1 of each year. The permittee shall continue to submit the semi-annual reports due by September 1 of each year.

**# 024 [25 Pa. Code §127.442]****Reporting requirements.**

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. 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 usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by

**SECTION C. Site Level Requirements**

telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

1. name, permit or authorization number, and location of the facility,
2. nature and cause of the malfunction, emergency or incident,
3. date and time when the malfunction, emergency or incident was first observed,
4. expected duration of excess emissions,
5. estimated rate of emissions,
6. corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

**# 025 [25 Pa. Code §135.3]****Reporting**

(1) A person who owns or operates a source to which 25 Pa. Code Chapter 135 applies, and who has previously been advised by the Department to submit an annual Air Information Management Systems (AIMS) report, shall submit by March 1 of each year an annual AIMS report for the preceding calendar year. The report shall include information for all 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.

(2) A person who receives initial notification by the Department that an annual AIMS report is necessary shall submit an initial annual AIMS report within 60 days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.

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

**# 026 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10899]****Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my recordkeeping and reporting requirements?**

The permittee shall submit semi-annual compliance reports to the Department which clearly identifies any deviation from the scrap restriction identified in condition #008 herein or the pollution prevention management practices identified in condition #029 herein and the corrective action taken.

The semi-annual reports shall be submitted to the Department no later than September 1 (for the immediately-preceding January 1 through June 30 period) and March 1 (for the immediately-preceding July 1 through December 31 period).

**VI. WORK PRACTICE REQUIREMENTS.****# 027 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne from any source specified in (1) through (8) in condition #001 herein. These actions shall include, but not limited to, the following:

- (1) 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.

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- (2) Application of asphalt, oil, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) 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.

**# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain a minimum regenerative thermal oxidizer (C24) combustion chamber outlet temperature of 1,500°F during anytime the oxidizer is controlling air contaminant emissions from either P203 or P207.

**# 029 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10885]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my management practices for metallic scrap and mercury switches?**

[Additional authority for this permit condition is also derived from 40 CFR 63.10895]

The permittee shall comply with the metallic scrap management practices specified herein.

For each segregated metallic scrap storage area, bin or pile, the permittee shall comply with the materials acquisition requirements in paragraph (a) or (b) of this condition. The permittee may have certain scrap subject to paragraph (a) of this condition and other scrap subject to paragraph (b) of this condition at the facility provided the metallic scrap remains segregated until charge makeup.

(a) Restricted metallic scrap. The permittee shall 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 postconsumer 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 40 CFR Section 63.14). The requirements for no free liquids do not apply if the permittee can demonstrate that the free liquid is water that resulted from scrap exposure to rain.

(b) General iron and steel scrap. The permittee shall 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 hazardous air pollutant metals in the charge materials used by the permittee. The materials specifications for metallic scrap materials charged to a scrap preheater or metal melting furnace to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.

**VII. ADDITIONAL REQUIREMENTS.****# 030 [25 Pa. Code §121.7]****Prohibition of air pollution.**

The permittee shall not permit air pollution as that term is defined in the Pennsylvania Air Pollution Control Act (35 P.S. Sections 4001-4015).

**# 031 [25 Pa. Code §123.31]****Limitations**

The permittee shall not permit the emission of any malodorous air contaminants into the outdoor atmosphere from any source in such a manner that the malodors are detectable outside the property of the permittee on whose land the source is being operated.

**# 032 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The regenerative thermal oxidizer (C24) shall be equipped with a thermocouple or other temperature sensing device that shall accurately measure, and a monitor or gauge that shall accurately monitor and record, the oxidizer's combustion chamber outlet temperature.

**# 033 [25 Pa. Code §129.14]****Open burning operations**

The permittee shall not permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section

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129.14.

**# 034 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1]****Subpart A--General Provisions****Applicability.**

The foundry is subject to Subpart ZZZZZ of the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources, 40 CFR 63.10880 through 63.10906. The permittee shall comply with all applicable requirements specified in Subpart ZZZZZ, as well as any other applicable requirements specified in the National Emission Standards for Hazardous Air Pollutants.

**VIII. COMPLIANCE CERTIFICATION.**

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to State Only General Requirements).

**IX. COMPLIANCE SCHEDULE.**

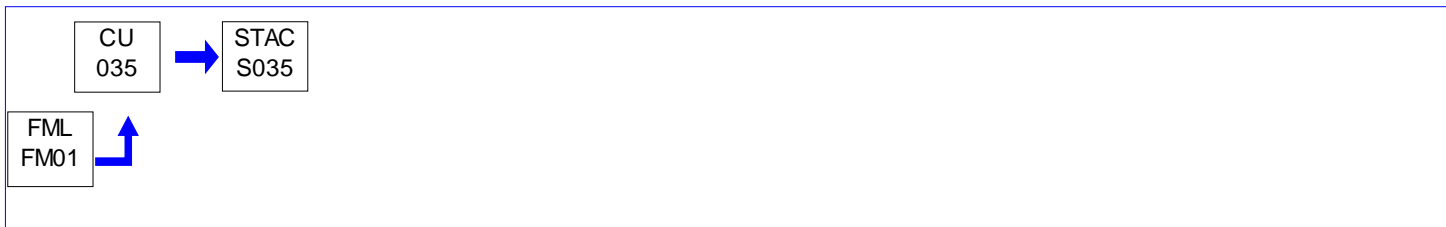
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 035

Source Name: COMBUSTION SOURCES &lt;10 MMBTU/HR

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.11]

**Combustion units**

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from any combustion source incorporated in Source 035 in excess of the rate of 0.4 pounds per million Btu of heat input.

# 002 [25 Pa. Code §123.22]

**Combustion units**

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from any combustion source incorporated in Source 035 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The combustion sources incorporated in Source 035 shall only be fired on natural gas or propane, as designated in Condition #004.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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



**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 004 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID 035 consists of the following natural gas-fired combustion sources (sources permitted to also fire on propane are designated with an asterisk [ \* ]):

- (a) 4.4 MMBtu per hour Rapids model 4044-20 makeup air unit (MUA-2) located in Finishing Area;
- (b) 2.625 MMBtu per hour Rapids model 4054-40 makeup air unit (MUA-3) located in Finishing Area;
- (c) 6.6 MMBtu per hour Rapids model 4036-10 makeup air unit (MUA-4) located in Finishing Area;
- (d) 4.125 MMBtu per hour makeup air unit (MUA-5);
- (e) 2.625 MMBtu per hour makeup air unit (MUA-5A);
- (f) 3.025 MMBtu per hour Rapids model 4066-50 makeup air unit (MUA-6) located in Molding Area;
- (g) 8.25 MMBtu per hour makeup air unit (MUA-7);
- (h) 8.25 MMBtu per hour Rapids model 4040-15 makeup air unit (MUA-8) located in Molding Area;
- (i) 6.6 MMBtu per hour Rapids model 4080-60 makeup air unit (MUA-9) located in Molding Area;
- (j) 0.825 MMBtu per hour Rapids model 4024-5 makeup air unit (MUA-1) located in Finishing Area;
- (k) 2.2 MMBtu per hour Rapids model 4080-60 makeup air unit (MUA-10) located in Molding Area;
- (l) 1.357 MMBtu per hour Rapids model 4066-50 makeup air unit (MUA-11) located in Melt Area;
- \* (m) 0.15 MMBtu per hour Dayton model 3E371D combustion unit located in Core Room Acid Scrubber Bldg.;
- \* (n) 0.06 MMBtu per hour Dayton model 3E371D combustion unit located in Core Room Acid Scrubber Bldg.;
- \* (o) 0.1215 MMBtu per hour Dayton model 4LX56 combustion unit located in the Water Treatment Building;
- \* (p) 0.06 MMBtu per hour Trane heater located in the Water Treatment Building;
- \* (q) 0.2 MMBtu per hour Dunkirk Quantum 95 M-200 Boiler in Oil Storage Shed;
- \* (r) King Air Makeup Unit Model DF118A in the North Boiler Room;
- \* (s) Two 0.42 MMBtu per hour AO Smith HW-420 300 combustion units located in Boiler Room;
- \* (t) 0.06 MMBtu per hour Dayton model 3E405D combustion unit located in North Boiler Room;
- \* (u) two 0.15 MMBtu per hour Dayton model 3E371D combustion units located in the Shipping Area;
- \* (v) three 0.1 MMBtu per hour Reznor heaters, two located in the Maintenance Area and one in the Compressor Room;
- \* (w) two 0.166 MMBtu per hour Dayton 4L00 heaters located in the Ladle Room;
- \* (x) 0.166 MMBtu per hour Reznor 200 heater located in Stock Room;
- \* (y) 0.1 MMBtu per hour Reznor FE165 heater located in Pattern Shop;
- (z) Ten 0.4 MMBtu/hr, Gaylord Model 400FS-FDM ladle preheaters;
- (aa) One 1.25 MMBtu/hr, Gaylord Model 2M-3K-125FMVT ladle preheater;
- (bb) One 0.342 MMBtu/hr, Promeos ladle heater;
- (cc) One 2.0 MMBtu/hr, ladle preheater.

**SECTION D. Source Level Requirements**

Source ID: P201

Source Name: TWO CORELESS ELECTRIC INDUCTION FURNACES

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P201 in such a manner that the concentration in the effluent gas from Control Device C201 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The metallic hazardous air pollutant emissions from the induction melting furnaces incorporated in Source P201 shall not exceed 0.0213 pounds per ton of metal charged.

**# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10895]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my standards and management practices?**

The particulate matter emissions from the induction melting furnaces incorporated in Source P201 shall not exceed 0.8 pounds per ton of metal charged.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

No more than 130,000 tons of metal shall be melted in the two induction furnaces incorporated in Source P201 in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR 63.10898]

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter stack testing upon Source P201 using test methods and procedures acceptable to the Department, as well as in compliance with all applicable requirements specified in 40 CFR 63.10898(c). All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and

**SECTION D. Source Level Requirements**

recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**III. MONITORING REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C201 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C201 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

- (a) The amount of metal melted in Source P201 each month.
- (b) The number of hours Source P201 is operated each month.
- (c) The amount(s) and type(s) of manganese-bearing additives used in Source P201 each month.

All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10899]**

**Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my recordkeeping and reporting requirements?**

The permittee shall maintain the results of each inspection and maintenance required by Condition #019 for Control Device C201 in a logbook (written or electronic format). The logbook shall contain the date and time of each recorded action for Control device C201, the results of each inspection and the results of any maintenance performed on the fabric filter bags. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10899]**

**Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my recordkeeping and reporting requirements?**

The permittee shall maintain a copy of the operation and maintenance (O&M) plan as required by Condition #020 and records that demonstrate compliance with plan requirements. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

**# 010 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall submit the following records to the Department on a semi-annual basis:

- (a) The amount of metal melted in Source P201 each month during the respective six month period.
- (b) The number of hours Source P201 is operated each month during the respective six month period.
- (c) The amount(s) and type(s) of manganese-bearing additives used each month in Source P201 during the respective six month period.

**SECTION D. Source Level Requirements**

The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot, in pounds per hour and in pounds per ton of metal charged, as calculated pursuant to 40 CFR 63.10898(d).

**# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10899]****Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources  
What are my recordkeeping and reporting requirements?**

The permittee shall comply with all applicable reporting requirements for Source P201 and Control Device C201 specified in Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources, 40 CFR 63.10880 through 63.10906.

**VI. WORK PRACTICE REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Ferro-manganese or similar manganese-bearing materials may be added to the metal melted in the induction furnaces incorporated in Source P201 in order to meet customer specifications, on the condition that the total quantity of such material added does not exceed 48,000 pounds in any 12 consecutive month period. The permittee shall not intentionally add any alloying material containing nickel, chromium or other substances designated as hazardous air pollutants (other than the manganese authorized herein) to the metal melted in Source P201. Any nickel, chromium, etc. which may be present in the pig iron or scrap fed to the induction furnaces incorporated in Source P201 shall not be considered a violation of this condition provided that the content of such substances in the pig iron and scrap is minimal (total combined content of all such substances in any furnace charge not to exceed 1% by weight).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C201 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P201 and Control Device C201.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C201 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Control Device C201 shall not be used to control the air contaminant emissions from the slag off operation incorporated in Source P201 at any time that tapping/pouring is occurring on either of the induction furnaces incorporated in Source P201.

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

The hood used to capture the fugitive air contaminant emissions from the slag off operation incorporated in Source P201

**SECTION D. Source Level Requirements**

shall be dampered off from Control Device C201 at all times except while dumping slag containers into the slag bucket.

**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The hood used to capture the fugitive air contaminant emissions from the slag off operation incorporated in Source P201 shall be equipped with a flashing beacon which shall be activated whenever the damper to the hood is open (and shall continue to flash until the damper is closed).

**# 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10896]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources****What are my operation and maintenance requirements?**

The permittee shall prepare and operate Control Device C201 at all times according to a written operation and maintenance (O&M) plan. The permittee shall 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:

- (a) General facility and contact information.
- (b) Positions responsible for inspecting, maintaining, and repairing Control Device C201.
- (c) Description of items, equipment, and conditions that will be inspected, including an inspection schedule for the items, equipment and conditions.
- (d) Identity and estimated quantity of the replacement parts that will be maintained in inventory.

**# 020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10896]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources****What are my operation and maintenance requirements?**

The permittee shall inspect and maintain Control Device C201 according to the following requirements:

- (a) The permittee shall conduct monthly visual inspections of the system ductwork for leaks.
- (b) The permittee shall conduct inspections of the interior of Control Device C201 for structural integrity and to determine the condition of the fabric filter bags every 6 months.

**VII. ADDITIONAL REQUIREMENTS.****# 021 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P201 is comprised of two 10 ton capacity medium-frequency coreless induction melting furnaces, two elevators, a weigh feeder, a transfer barrel (melt furnace additive feed system) and a slag off operation, the air contaminant emissions from all of which shall be controlled by an Amerex model RP-10-608-D6 fabric collector, designated as BDC-01 (Control Device C201).

Compliance with this condition also ensures compliance with 40 CFR 63.10895(b).

**# 022 [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?**

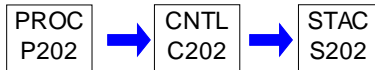
Source P201 is subject to Subpart ZZZZZ of the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources, 40 CFR 63.10880 through 63.10906. The permittee shall comply with all applicable requirements specified in Subpart ZZZZZ, as well as any other applicable requirements specified in the National Emission Standards for Hazardous Air Pollutants.

**SECTION D. Source Level Requirements**

Source ID: P202

Source Name: HOLDING FURNACE AND INOCULATION STATION

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P202 in such a manner that the concentration in the effluent gas from Control Device C202 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter stack testing upon Source P202 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C202 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C202 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P202 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P202 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

**VI. WORK PRACTICE REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C202 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P202 and Control Device C202.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C202 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

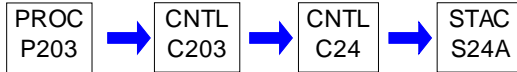
Source P202 is comprised of one 50 ton capacity electric induction holding furnace and one 10 ton capacity ductile iron inoculation station, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-448-D6 fabric collector, designated as BDC-02 (Control Device C202).

**SECTION D. Source Level Requirements**

Source ID: P203

Source Name: LINE 2070 POURING STATION AND MOLD COOLING LINE

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P203 in such a manner that the concentration in the effluent gas from Control Device C203 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined emission of volatile organic compounds from Sources P203 and P207 shall not exceed 0.1125 pounds per ton of metal poured, as measured at the regenerative thermal oxidizer (C24) exhaust stack.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile hazardous air pollutants from Source P203 shall not exceed 0.2664 pounds per ton of metal poured, as measured prior to the regenerative thermal oxidizer (C24).

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter and volatile organic compound stack testing upon Source P203 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]



**SECTION D. Source Level Requirements**

Control Device C203 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C203 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P203 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour, whereas, the results of the volatile organic compound testing shall be expressed in pounds per hour and pounds per ton of iron poured in Line 2070.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P203 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C203 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C203 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P203 and Control Device C203.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) Source P203 is comprised of a 10 ton capacity auto pouring station and a 106 ton per hour (sand and castings) mold cooling line, the air contaminant emissions from which shall be controlled by a C&W Manufacturing model BP7900C-NR-SP fabric collector (Control Device C203), and an Adwest RETOX 68.0 RTO-97 regenerative thermal oxidizer (C24). Source

**SECTION D. Source Level Requirements**

P203 is part of the 2070 molding line.

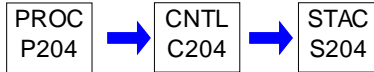
(b) The exhaust of Source P203 is equipped with a 4.5 MMBtu per hour, natural gas-fired ductwork heater, located upstream of Control Device C203, for voluntary moisture control.

**SECTION D. Source Level Requirements**

Source ID: P204

Source Name: LINE 2070 VIBRATING SHAKEOUT CONVEYOR SYSTEM

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P204 in such a manner that the concentration in the effluent gas from Control Device C204 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds from Source P204 shall not exceed 0.200 pounds per ton of metal poured, as measured at the stack.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile hazardous air pollutants from Source P204 shall not exceed 0.0473 pounds per ton of metal poured, as measured at the stack.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter and volatile organic compound stack testing upon Source P204 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

**SECTION D. Source Level Requirements**

Control Device C204 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C204 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall maintain accurate and comprehensive records of the number of hours Source P204 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour, whereas, the results of the volatile organic compound testing shall be expressed in pounds per hour and pounds per ton of iron poured in Line 2070.

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall semi-annually submit records to the Department of the number of hours Source P204 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

**VI. WORK PRACTICE REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C204 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P204 and Control Device C204.

**# 010 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C204 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

**VII. ADDITIONAL REQUIREMENTS.**

**# 011 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

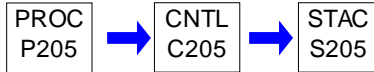
Source P204 is a 106 ton per hour mold transfer vibrating shakeout conveyor system, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-368-D6 fabric collector, designated as BDC-10 (Control Device C204). Source P204 is part of the 2070 molding line.

**SECTION D. Source Level Requirements**

Source ID: P205

Source Name: LINE 2070 COOLING/SEPARATION DRUM

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P205 in such a manner that the concentration in the effluent gas from Control Device C205 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds from Source P205 shall not exceed 0.110 pounds per ton of metal poured, as measured at the stack.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile hazardous air pollutants from Source P205 shall not exceed 0.0261 pounds per ton of metal poured, as measured at the stack.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter and volatile organic compound stack testing upon Source P205 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

**SECTION D. Source Level Requirements**

Control Device C205 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C205 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P205 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour, whereas, the results of the volatile organic compound testing shall be expressed in pounds per hour and pounds per ton of iron poured in Line 2070.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P205 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C205 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P205 and Control Device C205.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C205 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

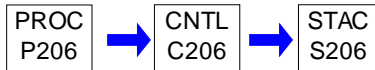
Source P205 is a 106 ton per hour AISCO cooling/separation drum, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-496-D6 fabric collector, designated as BDC-09 (Control Device C205). Source P205 is part of the 2070 molding line.

**SECTION D. Source Level Requirements**

Source ID: P206

Source Name: LINE 2070 DESPRUING CONVEYOR AND SHOTBLAST MACHINE

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P206 in such a manner that the concentration in the effluent gas from Control Device C206 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter stack testing upon Source P206 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C206 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C206 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P206 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P206 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

**VI. WORK PRACTICE REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C206 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P206 and Control Device C206.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C206 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P206 is comprised of a 14 ton per hour despruing conveyor and a 6.2 ton per hour shotblast machine, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-565-D6 fabric collector, designated as BDC-12 (Control Device C206). Source P206 is part of the 2070 molding line.

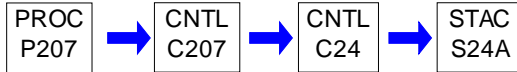


**SECTION D. Source Level Requirements**

Source ID: P207

Source Name: LINE 2013 POURING STATION AND MOLD COOLING LINE

Source Capacity/Throughput:

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined emission of volatile organic compounds from Source ID's P203 and P207 shall not exceed 0.1125 pounds per ton of metal poured, as measured at the regenerative thermal oxidizer (C24) exhaust stack.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile hazardous air pollutants from Source P207 shall not exceed 0.2664 pounds per ton of metal poured, as measured prior to the regenerative thermal oxidizer (C24).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P207 in such a manner that the concentration in the effluent gas from Control Device C207 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter and volatile organic compound stack testing upon Source P207 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

**SECTION D. Source Level Requirements**

Control Device C207 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C207 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P207 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall semi-annually submit records to the Department of the number of hours Source P207 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour, whereas, the results of the volatile organic compound testing shall be expressed in pounds per hour and pounds per ton of iron poured in Line 2013.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C207 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P207 and Control Device C207.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C207 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) Source P207 is comprised of a 10 ton capacity auto pouring station and a 66 ton per hour (sand and castings) mold cooling line, the air contaminant emissions from which shall be controlled by a C&W Manufacturing model BP7900C-NR-SP fabric collector (Control Device C207), and an Adwest RETOX 68.0 RTO-97 regenerative thermal oxidizer (C24). Source

**SECTION D. Source Level Requirements**

P207 is part of the 2013 molding line.

(b) The exhaust of Source P207 is equipped with a 4.5 MMBtu per hour, natural gas-fired ductwork heater, located upstream of Control Device C207, for voluntary moisture control.

**SECTION D. Source Level Requirements**

Source ID: P208

Source Name: LINE 2013 VIBRATING SHAKEOUT CONVEYOR SYSTEM

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P208 in such a manner that the concentration in the effluent gas from Control Device C208 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds from Source P208 shall not exceed 0.200 pounds per ton of metal poured, as measured at the stack.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile hazardous air pollutants from Source P208 shall not exceed 0.0473 pounds per ton of metal poured, as measured at the stack.

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

- (a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter and volatile organic compound stack testing upon Source P208 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.
- (b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

**SECTION D. Source Level Requirements**

Control Device C208 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C208 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P208 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour, whereas, the results of the volatile organic compound testing shall be expressed in pounds per hour and pounds per ton of iron poured in Line 2013.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P208 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C208 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P208 and Control Device C208.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C208 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

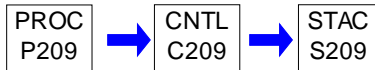
Source P208 is a 66 ton per hour mold transfer vibrating shakeout conveyor system, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-240-D6 fabric collector, designated as BDC-11 (Control Device C208). Source P208 is part of the 2013 molding line

**SECTION D. Source Level Requirements**

Source ID: P209

Source Name: LINE 2013 COOLING/SEPARATION DRUM

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P209 in such a manner that the concentration in the effluent gas from Control Device C209 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds from Source P209 shall not exceed 0.3 pounds per ton of metal poured, as measured at the stack.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile hazardous air pollutants from Source P209 shall not exceed 0.0261 pounds per ton of metal poured, as measured at the stack.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter, but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter and volatile organic compound stack testing upon Source P209 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

**SECTION D. Source Level Requirements**

Control Device C209 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C209 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P209 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Within 60 days following the completion of any testing required herein on Source ID P209, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour, whereas, the results of the volatile organic compound testing shall be expressed in pounds per hour and pounds per ton of iron poured in Line 2013.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P209 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C209 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P209 and Control Device C209.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C209 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

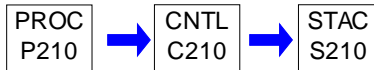
Source P209 is a 66 ton per hour AISCO cooling/separation drum, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-320-D6 fabric collector, designated as BDC-08 (Control Device C209). Source P209 is part of the 2013 molding line.

**SECTION D. Source Level Requirements**

Source ID: P210

Source Name: LINE 2013 DESPRUING CONVEYOR AND SHOTBLAST MACHINE

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P210 in such a manner that the concentration in the effluent gas from Control Device C210 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter stack testing upon Source P210 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C210 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C210 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P210 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.



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

The permittee shall semi-annually submit records to the Department of the number of hours Source P210 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour.

**VI. WORK PRACTICE REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C210 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P210 and Control Device C210.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C210 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

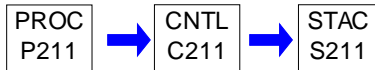
Source P210 is comprised of a 12 ton per hour despruing conveyor and a 4.7 ton per hour shotblast machine, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-448-D6 fabric collector, designated as BDC-13 (Control Device C210). Source P210 is part of the 2013 molding line.

**SECTION D. Source Level Requirements**

Source ID: P211

Source Name: REJECT MOLD CONVEYORS AND SHAKEOUTS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P211 in such a manner that the concentration in the effluent gas from Control Device C211 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C211 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C211 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain accurate and comprehensive records of the number of hours Source P211 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall semi-annually submit records to the Department of the number of hours Source P211 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C211 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P211 and Control Device C211.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C211 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

**VII. ADDITIONAL REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P211 is comprised of two reject mold conveyors and two reject mold shakeouts, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-352-D6 fabric collector, designated as BDC-07 (Control Device C211).

**SECTION D. Source Level Requirements**

Source ID: P212

Source Name: RETURN SAND COLLECTION CONVEYOR SYSTEM

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P212 in such a manner that the concentration in the effluent gas from Control Device C212 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter stack testing upon Source P212 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C212 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C212 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P212 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P212 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

**VI. WORK PRACTICE REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C212 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P212 and Control Device C212.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C212 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

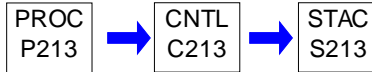
Source P212 is a 272 ton per hour return sand collection conveyor system, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-304-D6 fabric collector, designated as BDC-05 (Control Device C212).

**SECTION D. Source Level Requirements**

Source ID: P213

Source Name: RETURN SAND ROTARY SCREEN AND ASSOCIATED CONVEYORS

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P213 in such a manner that the concentration in the effluent gas from Control Device C213 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter stack testing upon Source P213 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C213 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C213 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P213 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P213 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

**VI. WORK PRACTICE REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C213 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P213 and Control Device C213.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C213 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12.]

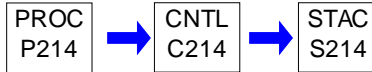
Source P213 is comprised of a 272 ton per hour return sand rotary screen, associated conveyors, a refuse sand storage building (as configured in accordance with Request For Determination approved on February 8, 2005), and two mullor feed belts, designated as 182 and 192 (as configured in accordance with a minor significance request approved August 9, 2018), the air contaminant emissions from all such sources shall be controlled by an Amerex model RP-10-432-D6 fabric collector, designated as BDC-06 (Control Device C213).

**SECTION D. Source Level Requirements**

Source ID: P214

Source Name: FLUID BED SAND COOLER, BUCKET ELEVATOR &amp; CONVEYORS

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P214 in such a manner that the concentration in the effluent gas from Control Device C214 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

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

(a) By no later than December 31, 2023, and by no later than every four years thereafter (December 31, 2027, December 31, 2031, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform particulate matter stack testing upon Source P214 using test methods and procedures acceptable to the Department. All testing shall be performed while the source is operating at its normal maximum rate of production.

(b) At least 90 days prior to the performance of any testing required by subsection (a) above, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(c) At least 15 days prior to the performance of any testing required by subsection (a) above, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C214 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C214 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

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

The permittee shall maintain accurate and comprehensive records of the number of hours Source P214 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.



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

Within 60 days following the completion of any testing required by this operating permit, the permittee shall submit three copies of a test report to the Department. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the particulate matter testing shall be expressed in grains per dry standard cubic foot and in pounds per hour.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source P214 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

**VI. WORK PRACTICE REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C214 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P214 and Control Device C214.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C214 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

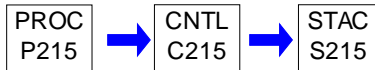
Source P214 is comprised of a 240 ton per hour fluid bed sand cooler and associated bucket elevator and conveyors, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-432-D6 fabric collector, designated as BDC-14 (Control Device C214).

**SECTION D. Source Level Requirements**

Source ID: P215

Source Name: TUMBLAST MACHINE

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P215 in such a manner that the concentration in the effluent gas from Control Device C215 exceeds 0.005 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C215 shall be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the fabric collector tube sheet. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Device C215 which shall at a minimum, include reading and logging the pressure drop across the fabric collector tube sheet on a daily basis.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain accurate and comprehensive records of the number of hours Source P215 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall semi-annually submit records to the Department of the number of hours Source P215 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C215 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P215 and Control Device C215.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The storage and handling of the material collected in Control Device C215 shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in 25 Pa. Code Section 123.1.

**VII. ADDITIONAL REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P215 is a 28 cubic foot Pangborn model #28GN-1 tumblast machine, the air contaminant emissions from which shall be controlled by an Amerex model RP-10-160-D6 fabric collector, designated as BDC-15 (Control Device C215).

**SECTION D. Source Level Requirements**

Source ID: P216

Source Name: DUST STORAGE SILOS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P216 in such a manner that the concentration of particulate matter in the effluent gas from Control Device C216 exceeds 0.04 grains per dry standard cubic foot of effluent gas volume.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device C216 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P216 and Control Device C216.

**VII. ADDITIONAL REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

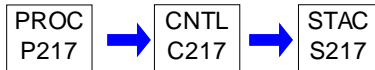
Source P216 is comprised of three 918 cubic foot "collected dust" storage silos, the air contaminant emissions from which shall be controlled by a Dynamic Air model #84A-32 bin vent fabric collector (Control Device C216).

**SECTION D. Source Level Requirements**

Source ID: P217

Source Name: SAND/BINDER STORAGE SILOS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from the storage silos incorporated in Source P217 in such a manner that the concentration of particulate matter in the effluent gas from either of the two bin vent fabric collectors incorporated in Control Device C217 exceeds 0.04 grains per dry standard cubic foot of effluent gas volume.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for the two bin vent collectors incorporated in Control Device C217 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P217 and Control Device C217.

**VII. ADDITIONAL REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P217 is comprised of one 1,500 cubic foot sand storage silo and one 3,000 cubic foot sand/binder storage silo. The air contaminant emissions from each storage silo shall be controlled by a discrete Dynamic Air model #84A-32 bin vent

**SECTION D. Source Level Requirements**

fabric collector (Control Device C217). The storage silos identified herein were constructed pursuant to Plan Approval 59-304-008.

**SECTION D. Source Level Requirements**

Source ID: P217A

Source Name: SAND/BINDER STORAGE SILOS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from the storage silos incorporated in Source P217A in such a manner that the concentration of particulate matter in the effluent gas from either of the two bin vent fabric collectors incorporated in Control Device C217A exceeds 0.01 grains per dry standard cubic foot of effluent gas volume.

Compliance with this condition also ensures compliance with 25 Pa. Code Section 123.13.

**Operation Hours Restriction(s).**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall not pneumatically convey material into each of the two storage silos incorporated in Source P217A more than 600 hours in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain accurate and comprehensive records of the number of hours material is pneumatically conveyed to each silo incorporated in Source P217A each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall semi-annually submit records to the Department of the number of hours material is pneumatically conveyed to each silo incorporated in Source P217A each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

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

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for the two bin vent collectors incorporated in Control Device C217A in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source P217A and Control Device C217A.

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

Source P217A is comprised of two 3,000 cubic foot sand/binder storage silos. The air contaminant emissions from each storage silo shall be controlled by a discrete Dynamic Air model #84A-32 bin vent fabric collector (Control Device C217A). Approval to construct the storage silos identified herein was granted pursuant to Request For Determination approved on April 25, 2002.

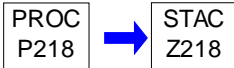


**SECTION D. Source Level Requirements**

Source ID: P218

Source Name: SHELL CORE OPERATION

Source Capacity/Throughput:

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

(a) The total combined emission of volatile organic compounds from the sources identified under Condition #004(a) herein shall not exceed 1.0 ton in any 12 consecutive month period. Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12.

(b) The air contaminant emissions from the sources identified under Condition #004(b) shall comply with the following limits: less than 2.7 tons on a 12-month rolling basis of volatile organic compounds; less than or equal to 1,000 lbs of a single HAP in any consecutive 12-month period; and less than or equal to one ton of any combination of HAPs in 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 (State Only General Requirements).

**III. MONITORING REQUIREMENTS.**

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

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

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

(a) The amount of sand (with pre-mixed binder) used in Source P218 each month.

(b) The amount of volatile organic compounds emitted from Source P218 each month, as well as a copy of the calculations performed to determine the respective emission value and a copy of all supporting documentation.

All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

The permittee shall submit the following records to the Department on a semi-annual basis:

(a) The amount of sand (with pre-mixed binder) used in Source P218 each month during the respective six month period.

(b) The amount of volatile organic compounds emitted from Source P218 each month during the respective six month period.

The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period. The reports shall include all supporting documentation used and/or calculations

**SECTION D. Source Level Requirements**

performed in the determination of the reported monthly emissions values.

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 004 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P218 consists of the following sources:

(a) two natural gas-fired, 160,000 Btu per hour Shalco model U-180 shell core machines and one natural gas-fired, 160,000 Btu per hour Shalco model SCB-9 shell core machine. Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12;

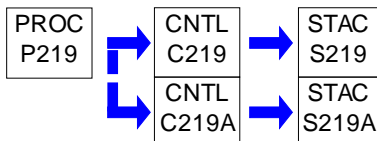
(b) one natural-gas fired 400,000 Btu per hour Shalco model U-360 shell core machine and one natural-gas fired 400,000 Btu per hour Redford model HP-43A natural-gas fired shell core machine. These sources were deemed to be automatically exempt from plan approval as per 25 Pa. Code Section 127.14(a)(8) based on information contained in a November 29, 2021 letter from the Victaulic Company to the Department.

**SECTION D. Source Level Requirements**

Source ID: P219

Source Name: PHENOLIC URETHANE COLD BOX CORE OPERATION

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P219 in such a manner that the concentration of particulate matter in the effluent gas from Control Devices C219 and C219A exceeds 0.04 grains per dry standard cubic foot of effluent gas volume.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined emission of hazardous air pollutants from the core-making machines incorporated in Source P219 shall not exceed 1.0 ton in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined emission of volatile organic compounds from the core-making machines incorporated in Source P219 shall not exceed 13.04 tons in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Devices C219 and C219A shall each be equipped with properly functioning instrumentation which continuously monitors the pressure drop across the device, the pH of the scrubbing solution and the recirculation flow rate of the scrubbing solution. Additionally, the permittee shall administer a preventative inspection/maintenance program for Control Devices C219 and C219A which shall at a minimum, include reading and logging the pressure drop across the devices, the pH of the scrubbing solutions and the recirculation flow rates of the scrubbing solutions on a daily basis.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C219A shall be equipped with an alarm which sounds when the pH of the scrubbing solution exceeds 4.4. The permittee may, at its discretion, set the alarm at a lower pH.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

- (a) The number of hours each of the core-making machines incorporated in Source P219 operates each month.
- (b) The amount of sand each of the core-making machines incorporated in Source P219 uses each month.
- (c) The type(s) and amount(s) of resins, catalysts and other additives each of the core-making machines incorporated in Source P219 uses each month.
- (d) The total combined amount of volatile organic compounds emitted from Source P219 each month, as well as a copy of the calculations performed to determine the respective emission value and a copy of all supporting documentation.
- (e) The total combined amount of volatile hazardous air pollutants emitted from Source P219 each month, as well as a copy of the calculations performed to determine the respective emission value and a copy of all supporting documentation.

All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall submit the following records to the Department on a semi-annual basis:

- (a) The number of hours each of the core-making machines incorporated in Source P219 operates each month.
- (b) The amount of sand each of the core-making machines incorporated in Source P219 uses each month.
- (c) The type(s) and amount(s) of resins, catalysts and other additives each of the core-making machines incorporated in Source P219 uses each month.
- (d) The total combined amount of volatile organic compounds emitted from Source P219 each month.
- (e) The total combined amount of volatile hazardous air pollutants emitted from Source P219 each month.

The semi-annual reports shall be submitted to the Department no later than March 1 and September 1 for the previous 12 consecutive month period. The reports shall include all supporting documentation used and/or calculations performed in the determination of the reported monthly emissions values.

**VI. WORK PRACTICE REQUIREMENTS.****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The pH of the scrubbing solutions used in Control Devices C219 and C219A shall not exceed 4.5.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The recirculation flow rate of the scrubbing solution in Control Device C219 shall be equal to or greater than 38 gallons per minute any time Control Device C219 is operating.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The recirculation flow rate of the scrubbing solution in Control Device C219A shall be equal to or greater than 50 gallons per minute any time Control Device C219A is operating.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P219 is comprised of the following core-making machines:

- (a) One Laempe model LKFZ-LF20 phenolic urethane cold box core-making machine, the air contaminant emissions from which are controlled by a Dakota model DES-42 countercurrent vertical packed bed scrubber (Control Device C219).
- (b) One Laempe model L40 phenolic urethane cold box core-making machine, the air contaminant emissions from which are controlled by a Dakota model DI-48 countercurrent vertical packed bed scrubber (Control Device C219A).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The Laempe model L40 core-making machine incorporated in Source P219 shall be equipped with an interlock which prevents the machine from operating when the pH of the scrubbing solution in Control Device C219A is equal to or greater than 4.5.

**SECTION D. Source Level Requirements**

Source ID: P223

Source Name: EMERGENCY GENERATOR

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P223 in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]****General**

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from Source P223 in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

**Fuel Restriction(s).****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source P223 shall only be fired on virgin diesel fuel to which no reclaimed or waste oil or other waste materials have been added.

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

Source P223 shall not be operated more than 500 hours in any 12 consecutive month period.

**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

The emergency generator incorporated in Source ID P223 may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the emergency generator. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of any emergency generator incorporated in Source ID P223 beyond 100 hours per year. The emergency generators incorporated in Source ID P223 may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. Any operation of any emergency generator incorporated in Source ID P223, other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this condition, is prohibited.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall maintain accurate and comprehensive records of the number of hours Source P223 is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**

**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

The permittee shall maintain records of the following:

- (a) The number of hours the emergency generator incorporated in Source ID P223 is operated each month and the purpose of the operation.
- (b) Maintenance conducted on the emergency generator incorporated in Source ID P223.

These records shall be maintained for at least five years and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall semi-annually submit records to the Department of the number of hours Source P223 is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

**VI. WORK PRACTICE REQUIREMENTS.**

**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]**

**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

With respect to the emergency generator incorporated in Source ID P223, the permittee shall change the oil and filter every 500 hours of operation or annually, whichever comes first; inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

**# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**

**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

The permittee must operate and maintain the emergency generator engine incorporated in Source ID P223 and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own

**SECTION D. Source Level Requirements**

maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

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

Source P223 is a 125 kilowatt Onan model 125DGEA emergency electric generator equipped with a 168 bhp Cummins model CT83-G Spec SES1173 diesel engine.

**# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

Source ID P223 is subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines pursuant to 40 CFR Part 63 Subpart ZZZZ Section 63.6580 through 63.6675. The permittee shall comply with all applicable requirements of 40 CFR Part 63 Subpart ZZZZ Section 63.6580 through 63.6675.



**SECTION D. Source Level Requirements**

Source ID: P223A

Source Name: EMERGENCY GENERATOR

Source Capacity/Throughput:

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

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source P223A in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]****General**

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from Source P223A in such a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?**

Pursuant to 40 CFR 60.4233(d), the air contaminant emissions from Source ID P233A shall comply with the emission standards established in Table 1 of Subpart JJJJ for emergency SI engines with maximum engine power >25 hp and <130 hp, manufactured after 1/1/2009, as follows:

- (a) NO<sub>x</sub>+HC: 10 grams per horsepower-hour;
- (b) CO: 387 grams per horsepower-hour.

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

Source ID P223A shall only be fired on natural gas.

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

Source ID P223A shall not be operated more than 500 hours in any 12 consecutive month period.

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

In accordance with 40 CFR 60.4243(d), Source ID P223A may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the emergency generator. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of Source P223A beyond 100 hours per year. Source ID P223A may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted

**SECTION D. Source Level Requirements**

towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. Any operation of Source ID P223A, other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this condition, is prohibited.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain accurate and comprehensive records of the number of hours Source ID P223A is operated each month. All records generated pursuant to this condition shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

The permittee shall semi-annually submit records to the Department of the number of hours Source ID P223A is operated each month during the respective six month period. The semi-annual reports shall be submitted to the Department no later than March 1 for the immediately-preceding July 1 through December 31 six consecutive month period and September 1 for the immediately-preceding January 1 through June 30 six consecutive month period.

**VI. WORK PRACTICE REQUIREMENTS.**

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

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

Source ID P223A is a 25 kW Generac Guardian natural gas-fired emergency generator/engine set originally constructed under an RFD approved on November 19, 2013.

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
Am I subject to this subpart?**

Source ID P223A is subject to the requirements of the Standards of Performance for Stationary Spark Ignition Internal combustion Engines pursuant to 40 CFR Part 60 Subpart JJJJ, Section 60.4230 through 60.4247. The permittee shall comply with all applicable requirements of 40 CFR Part 60 Subpart JJJJ, Section 60.4230 through 60.4247.

**# 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

**SECTION D. Source Level Requirements****Am I subject to this subpart?**

Source ID P223A is subject to 40 CFR Part 63 Subpart ZZZZ, National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. In accordance with 40 CFR 63.6590(c)(1), the permittee shall comply with Subpart ZZZZ by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, for spark ignition engines.



**SECTION E. Source Group Restrictions.**



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.



**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



## SECTION H. Miscellaneous.

The following air contaminant sources are considered to be of minor significance to the Department and have been determined to be exempt from permit requirements. However, this determination does not exempt the sources from compliance with all applicable air quality regulations specified in 25 Pa. Code Chapters 121-143:

- (1) One fuel storage tank <1,500 gallons;
- (2) Warehouse forklift engines;
- (3) Six cooling towers;
- (4) Small (<100 cubic yard) storage piles for foundry materials, by-products and wastes;
- (5) Pavement maintenance activities;
- (6) Various sources exhausted indoors including:

seven grinding stations located throughout the building, all for ductile iron with elephant trunk pick-ups and individual-unit, self-contained dust collectors; charge make-up handling; molten iron handling and alloy addition; ladle cleaning; pattern maintenance; slag cooling; delivery/warehousing of raw/bulk materials; ladle filling and iron transport; iron scrap and raw material storage piles; casting handling, trimmings, dunnage and packaging; portable media blasting operations.



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

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