



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Site Inventory List

Section B. General State Only Requirements

- #001 Definitions.
- #002 Operating Permit Duration.
- #003 Permit Renewal.
- #004 Operating Permit Fees under Subchapter I.
- #005 Transfer of Operating Permits.
- #006 Inspection and Entry.
- #007 Compliance Requirements.
- #008 Need to Halt or Reduce Activity Not a Defense.
- #009 Duty to Provide Information.
- #010 Revising an Operating Permit for Cause.
- #011 Operating Permit Modifications
- #012 Severability Clause.
- #013 De Minimis Emission Increases.
- #014 Operational Flexibility.
- #015 Reactivation of Sources
- #016 Health Risk-based Emission Standards and Operating Practice Requirements.
- #017 Circumvention.
- #018 Reporting Requirements.
- #019 Sampling, Testing and Monitoring Procedures.
- #020 Recordkeeping.
- #021 Property Rights.
- #022 Alternative Operating Scenarios.
- #023 Reporting
- #024 Report Format

Section C. Site Level State Only Requirements

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

Section D. Source Level State Only Requirements

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements
- D-VI: Work Practice Standards
- D-VII: Additional Requirements

Note: These same sub-sections are repeated for each source!

Section E. Source Group Restrictions

- E-I: Restrictions



SECTION A. Table of Contents

- E-II: Testing Requirements
- E-III: Monitoring Requirements
- E-IV: Recordkeeping Requirements
- E-V: Reporting Requirements
- E-VI: Work Practice Standards
- E-VII: Additional Requirements

Section F. Alternative Operating Scenario(s)

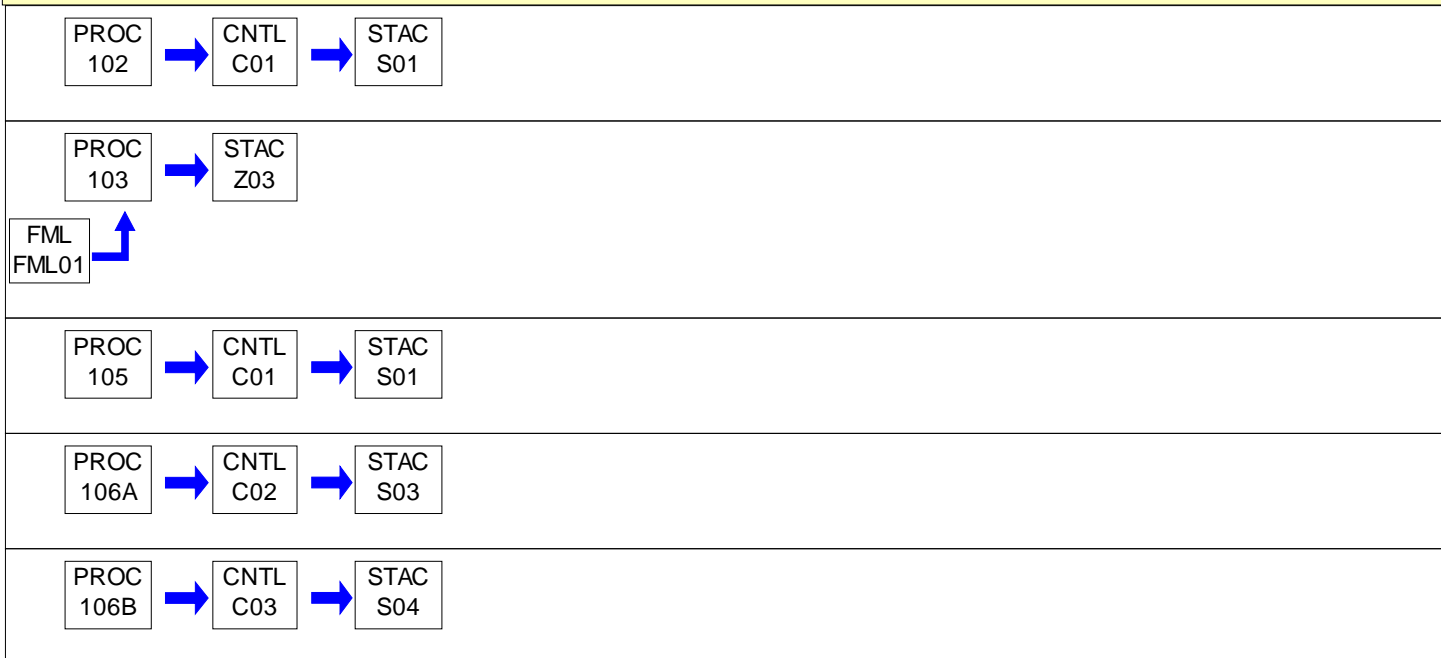
- F-I: Restrictions
- F-II: Testing Requirements
- F-III: Monitoring Requirements
- F-IV: Recordkeeping Requirements
- F-V: Reporting Requirements
- F-VI: Work Practice Standards
- F-VII: Additional Requirements

Section G. Emission Restriction Summary

Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
102	ELECTRIC INDUCTION FURNACES (4)	300.000 Lbs/HR	BRASS/BRONZE
103	NO. 2 FUEL OIL-FIRED CRUCIBLE FURNACE	300.000 Lbs/HR	ALUMINUM
105	CASTING SHAKEOUT OPERATION		
106A	BELT GRINDERS (4) AND CUT-OFF SAWS (2)		
106B	WHEEL BLAST CLEANING MACHINE		
C01	ELEC INDUCTION FURNACES AND CASTING SHAKEOUT OPER DUST COLL	N/A	
C02	BELT GRINDERS AND CUT-OFF SAWS DUST COLLECTOR		
C03	WHEEL BLAST CLEANING MACHINE DUST COLLECTOR		
FML01	1,000-GAL NO. 2 FUEL OIL ABOVEGROUND STORAGE TANK (AST)		
S01	ELEC INDUCT FURNACES AND CASTING SHAKEOUT OPER DUST COLL STK		
S03	BELT GRINDERS AND CUT-OFF SAWS DUST COLLECTOR STACK		
S04	WHEEL BLAST CLEANING MACHINE DUST COLLECTOR STACK		
Z03	CRUCIBLE FURNACE FUGITIVE EMISSIONS		

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_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

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

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, 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 § 127.11a]**Reactivation of Sources**

(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 §121.7]****Prohibition of air pollution.**

The permittee shall not cause or permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. § 4003).

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

The permittee shall ensure that emission into the outdoor atmosphere of fugitive air contaminants does not occur from any source, except for the following:

- (a) Construction or demolition of buildings or structures.
- (b) Grading, paving, and maintenance of roads and streets.
- (c) Use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered as emissions from use of roads and streets.
- (d) Clearing of land.
- (e) Stockpiling of materials.
- (f) Open burning operations, as specified in 25 Pa. Code § 129.14 (see Condition # 007(a)–(g), Section C, of this permit).
- (g) Sources and classes of sources other than those indicated in (a)–(f), above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code § 123.1(b), that fugitive air contaminant emissions from the sources, after appropriate controls, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution.
 - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

[Compliance with this streamlined permit condition assures compliance with 40 CFR § 60.672(b) and (d).]

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

The permittee shall ensure that emission into the outdoor atmosphere of fugitive particulate matter (PM) from a source(s) specified in 25 Pa. Code § 123.1 (see Condition # 002(a)–(h), Section C, of this permit) occurs in such a manner that the emission is not visible at the point it passes outside the person's property.

004 [25 Pa. Code §123.31]**Limitations**

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

005 [25 Pa. Code §123.41]**Limitations**

The permittee shall ensure that emission into the outdoor atmosphere of visible air contaminants from any source occurs in such a manner that the opacity of the emission is neither of the following:

- (a) Equal to or greater than 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (b) Equal to or greater than 60% at any time.

006 [25 Pa. Code §123.42]**Exceptions**

The emission restrictions specified in 25 Pa. Code § 123.41 (see Condition # 005(a)–(b), Section C, of this permit) shall

**SECTION C. Site Level Requirements**

not apply to a visible air contaminant emission in either of the following instances:

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the restrictions.
- (b) When the emission results from a source(s) specified in 25 Pa. Code § 123.1 (see Condition # 002(a)–(h), Section C, of this permit).

007 [25 Pa. Code §129.14]**Open burning operations**

The permittee shall not perform any open burning activities, except for the following:

- (a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (b) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.
- (f) A fire set solely for recreational or ceremonial purposes.
- (g) A fire set solely for cooking food.

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

- (a) If, at any time, the Department has cause to believe that air contaminant emissions from any source(s) listed in Sections A or H, of this permit, may be in excess of the restrictions specified in this permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Part I, Subpart C, Article III, the permittee shall be required to perform whatever test(s) is deemed necessary by the Department to determine the actual emission rate(s).
- (b) The permittee shall perform any test(s) required in (a), above, in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §123.43]****Measuring techniques**

The permittee may measure visible air contaminant emissions using either of the following:

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

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

- (a) The permittee shall monitor this facility, at least once per operating day, for the following:

**SECTION C. Site Level Requirements**

- (1) Odors, which may be objectionable (as per 25 Pa. Code § 123.31; see Condition # 004, Section C, of this permit).
- (2) Visible air contaminant emissions (as per 25 Pa. Code §§ 123.41 and 123.42; see Conditions # 005–006, Section C, of this permit, respectively).
- (3) Fugitive air contaminant emissions (as per 25 Pa. Code §§ 123.1 and 123.2; see Conditions # 002–003, Section C, of this permit, respectively).
- (b) Objectionable odors, visible air contaminant emissions, and/or fugitive air contaminant emissions that are caused or may be caused by operations at the facility shall:
 - (1) Be investigated.
 - (2) Be reported to the facility management, or individual(s) designated by the permittee.
 - (3) Have appropriate corrective action taken (for emissions that originate on-site).
 - (4) Be recorded in a permanent written log.
- (c) After 6 months of daily monitoring, upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to weekly.
- (d) After 6 months of weekly monitoring, upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e) The Department reserves the right to change the above monitoring requirements at any time, based on, but not limited to, the review of complaints, monitoring results, and/or Department findings.

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

The permittee shall maintain all records, reports, and analysis results generated in compliance with the requirements of any section of this permit in accordance with Condition # 020(b), Section B, of this permit, and shall make them available to the Department upon written or verbal request within a reasonable time.

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

(a) The permittee shall maintain records of all monitoring of odors, visible air contaminant emissions, and fugitive air contaminant emissions for this facility, including deviations from the conditions found in Conditions # 002–005, Section C, of this permit. All records of deviations shall include, at a minimum, the following for each incident:

- (1) A description of the deviation.
- (2) The source(s) and/or associated air pollution control device(s) and location(s).
- (3) The duration (including the starting and ending date(s) and times).
- (4) The cause(s).
- (5) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.

(b) The permittee shall maintain records of the monitoring in a Department-approved format and time frame.

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

The permittee shall maintain records of all of this facility's emission increases, including the following types, in accordance

**SECTION C. Site Level Requirements**

with 25 Pa. Code § 127.449:

- (a) De minimis emission increases without notification to the Department.
- (b) De minimis emission increases with notification to the Department, via letter.
- (c) Emission increases resulting from a Request for Determination of Changes of Minor Significance and Exemption from Plan Approval/Operating Permit (RFD) to the Department.
- (d) Emission increases resulting from the issuance of a plan approval and subsequent operating permit.

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

- (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 preventative 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 by telephone at 484-250-5920, as well as to the County Emergency Management Agency by telephone, within 1 hour after the discovery of the malfunction, emergency, or incident of excess emissions. The owner or operator shall submit a written or e-mailed report of instances of such malfunctions, emergencies, or incidents of excess emissions to the Department within 3 business days of the telephone report.
- (c) The report shall describe the following:
 - (1) The name, permit or authorization number, and location of the facility.
 - (2) The nature and cause of the malfunction, emergency, or incident.
 - (3) The date and time when the malfunction, emergency, or incident was first observed.
 - (4) The expected duration of excess emissions.
 - (5) The estimated rate of emissions.
 - (6) The corrective actions or preventative measures taken.
- (d) Any malfunction, emergency, or incident of excess emissions that is not subject to the notice requirements specified in (b), above, shall be reported to the Department by telephone at 484-250-5920 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 5 business days of discovery. The report shall contain the information listed in (c)(1)–(6), above, 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 of the notification and reporting requirements, in accordance with (b)–(d), above, 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 Regional Office Air Program Manager.

**SECTION C. Site Level Requirements**

(g) Any emissions resulting from a 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.

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

[Additional authority for this permit condition is derived from 40 CFR Part 68.]

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

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

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

(i) Three (3) years after the date on which a regulated substance is first listed in 40 CFR § 68.130.

(ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

(1) Submit a compliance schedule for satisfying all applicable provisions of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a).

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

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

(f) When the facility is subject to the accidental release program provisions of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.



SECTION C. Site Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 123.1(c).]

The permittee shall take all reasonable actions to prevent PM from a source(s) specified in 25 Pa. Code § 123.1 (see Condition # 002(a)–(g), Section C, of this permit) from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (b) Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces that may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved roads onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code §§ 127.443(b) and 127.444.]

The permittee shall ensure that the source(s) and associated air pollution control device(s) listed in Sections A and H, of this permit, are operated and maintained in a manner consistent with good safety, operating and maintenance, and air pollution control practices, as applicable, and in accordance with the manufacturers' specifications.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air pollution control device(s), if necessary, to reduce the air contaminant emissions to within applicable restrictions, if at any time the operation of a source(s) listed in Sections A or H, of this permit, is causing the emission of air contaminants in excess of the restrictions specified in this permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Part I, Subpart C, Article III.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee may not modify any air contaminant system identified in Sections A or H, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition # 013(g), Section B, of this permit.

VII. ADDITIONAL REQUIREMENTS.

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

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: 102

Source Name: ELECTRIC INDUCTION FURNACES (4)

Source Capacity/Throughput: 300.000 Lbs/HR BRASS/BRONZE

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General 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.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the amount of brass/bronze charged in these induction furnaces on a monthly basis.

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

The permittee shall keep records of the amount of brass/bronze charged in these induction furnaces on a monthly basis, calculated using a Department-approved method(s).

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

The permittee shall ensure that the dust collector (Source ID C01) associated with these induction furnaces is operating whenever brass or bronze is being charged in any of the induction furnaces.

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

(a) This source grouping consists of four electric induction furnaces manufactured by Pillar Industries (of which a maximum of two can be operated at any given time). The induction furnaces are used to melt brass and bronze for casting.

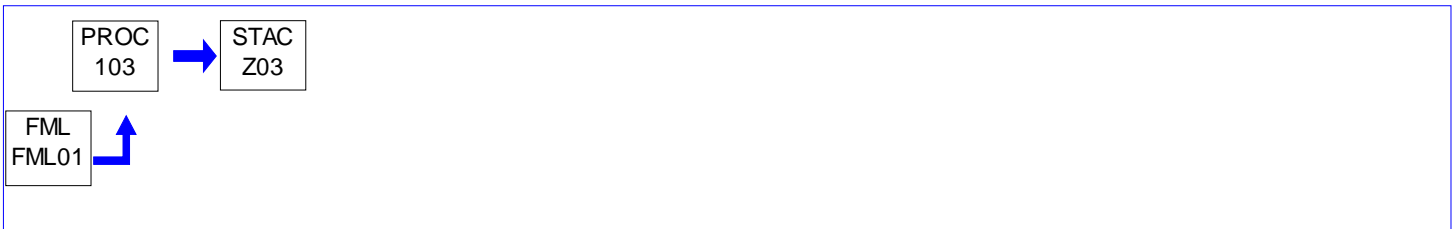
(b) PM emissions from the induction furnaces are ducted to an associated dust collector (Source ID C01) before exhausting into the outdoor atmosphere.

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: NO. 2 FUEL OIL-FIRED CRUCIBLE FURNACE

Source Capacity/Throughput: 300.000 Lbs/HR ALUMINUM

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall ensure that No. 2 fuel oil is the only fuel consumed by this crucible furnace.
- (b) The sulfur content of the No. 2 fuel oil shall not exceed 0.05%, by weight.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.21(b).]

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code § 139.16(1) and (3).]

- (a) The following testing requirements are applicable to the No. 2 fuel oil consumed by this crucible furnace:

(1) The fuel sample shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the permittee shall collect the sample employing the procedures and equipment specified in ASTM International (ASTM) Standard D4057 or D4177, as appropriate.

(2) Unless an alternative method(s) is approved by the Department, in writing, only ASTM standard D129, D1266, D1552, D2622, or D4294 may be used to determine the sulfur content of the No. 2 fuel oil.

(b) The testing requirements indicated in (a)(1)–(2), above, shall be waived for a given shipment of No. 2 fuel oil in the event that the permittee obtains either a laboratory analysis or other certification (e.g., delivery receipt) from the fuel supplier indicating the maximum sulfur content of the No. 2 fuel oil.

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following operating parameters for this crucible furnace on a monthly basis:

- (a) The amount of aluminum charged.
- (b) The amount of No. 2 fuel oil consumed.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following operating parameters for this crucible furnace on a monthly basis,

**SECTION D. Source Level Requirements**

calculated using Department-approved methods:

- (a) The amount of aluminum charged.
- (b) The amount of No. 2 fuel oil consumed.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the corresponding laboratory analysis or other certification from the fuel supplier for each shipment of No. 2 fuel oil received for this crucible furnace. The laboratory analysis or other certification shall specify the maximum sulfur content (% , by weight, or ppm, by weight) of the No. 2 fuel oil.

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.

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.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

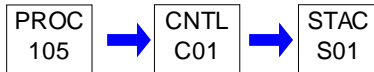
This source consists of a No. 2 fuel oil-fired crucible furnace, which is used to melt aluminum for casting.

**SECTION D. Source Level Requirements**

Source ID: 105

Source Name: CASTING SHAKEOUT OPERATION

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

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.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the dust collector (Source ID C01) associated with this casting shakeout operation is operating whenever castings are being shaken out in the casting shakeout operation.

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

(a) This source consists of a casting shakeout operation, in which cooled castings are shaken on a vibratory grate to brake up and remove sand molds.

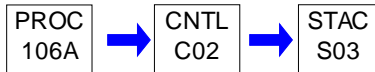
(b) PM emissions from the casting shakeout operation are ducted to an associated dust collector (Source ID C01) before exhausting into the outdoor atmosphere.

**SECTION D. Source Level Requirements**

Source ID: 106A

Source Name: BELT GRINDERS (4) AND CUT-OFF SAWS (2)

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 § 127.1.]

The permittee shall ensure that emission into the outdoor atmosphere of PM from these belt grinders and cut-off saws occurs in such a manner that the concentration of filterable PM in the exhaust gas, as measured at the outlet of the associated dust collector (Source ID C02), does not exceed 0.02 grains per dry standard cubic foot (gr/dscf).

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.13(c)(1)(i).]

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 § 127.443(b).]

The permittee shall monitor the differential pressure (inches of water) across the dust collector (Source ID C02) associated with these belt grinders and cut-off saws on an operating day basis.

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

The permittee shall keep records of the differential pressure (inches of water) across the dust collector (Source ID C02) associated with these belt grinders and cut-off saws on an operating day basis.

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

The permittee shall keep records of all maintenance (i.e., routine and/or preventative maintenance, repairs, parts replacement, adjustments, calibrations, etc.) performed for the dust collector (Source ID C02) associated with these belt grinders and cut-off saws. These records shall contain, at a minimum, the following:

- (a) The date of and time of the maintenance.
- (b) The type of maintenance performed.

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

The permittee shall ensure that the dust collector (Source ID C02) associated with these belt grinders and cut-off saws is operating whenever any of the belt grinders or cut-off saws are being operated.

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

The permittee shall operate and maintain a differential pressure gauge to indicate the differential pressure across the dust collector (Source ID C02) associated with these belt grinders and cut-off saws. The permittee shall maintain the differential pressure across the dust collector within the range of 2–8 inches of water.

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

The permittee shall ensure that the cartridge filters used in the dust collector (Source ID C02) associated with these belt grinders and cut-off saws are replaced as needed. The permittee shall keep a sufficient quantity of spare cartridge filters on hand for replacement of any deteriorated or ineffective cartridge filters.

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

The permittee shall ensure that the dust collection drums at the bottom of the dust collector (Source ID C02) associated with these belt grinders and cut-off saws are emptied on a weekly basis, or as needed.

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

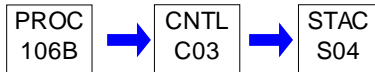
- (a) This source grouping consists of four belt grinders and two cut-off saws, which are used to remove sprues from the castings.
- (b) PM emissions from the belt grinders and cut-off saws are ducted to a reverse air flow dust collector, model type/ no. Tenkay 16D, manufactured by Farr Co., before exhausting into the outdoor atmosphere. The dust collector is rated at 8,000 acfm exhaust gas flow (at 11 inches of water), and uses 16 pleated, non-woven fabric (cellulose/synthetic fiber) cartridge filters.

**SECTION D. Source Level Requirements**

Source ID: 106B

Source Name: WHEEL BLAST CLEANING 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 § 127.1.]

The permittee shall ensure that emission into the outdoor atmosphere of PM from this wheel blast cleaning machine occurs in such a manner that the concentration of filterable PM in the exhaust gas, as measured at the outlet of the associated dust collector (Source ID C03), does not exceed 0.02 gr/dscf.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.13(c)(1)(i).]

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.**

The permittee shall monitor the differential pressure (inches of water) across the dust collector (Source ID C03) associated with this wheel blast cleaning machine on an operating day basis.

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

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall keep records of the differential pressure (inches of water) across the dust collector (Source ID C03) associated with this wheel blast cleaning machine on an operating day basis.

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

The permittee shall keep records of all maintenance performed for the dust collector (Source ID C03) associated with this wheel blast cleaning machine. These records shall contain, at a minimum, the following:

- (a) The date and time of the maintenance.
- (b) The type of maintenance performed.

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

The permittee ensure that the dust collector (Source ID C03) associated with this wheel blast cleaning machine is operating whenever the wheel blast cleaning machine is being operated.

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

The permittee shall operate and maintain a differential pressure gauge to indicate the differential pressure across the dust collector (Source ID C03) associated with this wheel blast cleaning machine. The permittee shall maintain the differential pressure across the dust collector within the range of 2–8 inches of water.

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

The permittee shall ensure that the cartridge filters used in the dust collector (Source ID C03) associated with this wheel blast cleaning machine are replaced as needed. The permittee shall keep a sufficient quantity of spare cartridge filters on hand for replacement of any deteriorated or ineffective cartridge filters.

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

The permittee shall ensure that the dust collection drums at the bottom of the dust collector (Source ID C03) associated with this wheel blast cleaning machine are emptied on a weekly basis, or as needed.

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

(a) This source consists of a wheel blast cleaning machine, model type Tumblast, manufactured by Wheelabrator. The wheel blast cleaning machine is used to remove sand from and finish the castings.

(b) PM emissions from the wheel blast cleaning machine are ducted to a reverse air flow dust collector, model type/ no. Tenkay 3C, manufactured by Farr Co., before exhausting into the outdoor atmosphere. The dust collector is rated at 1,800 acfm exhaust gas flow (at 7 inches of water), and uses three pleated, non-woven fabric (cellulose/synthetic fiber) cartridge filters.

**SECTION D. Source Level Requirements**

Source ID: C01

Source Name: ELEC INDUCTION FURNACES AND CASTING SHAKEOUT OPER DUST COLL

Source Capacity/Throughput:

N/A

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 § 127.1.]

The permittee shall ensure that emission into the outdoor atmosphere of PM from any of the electric induction furnaces (Source ID 102) and/or the casting shakeout operation (Source ID 105) through this dust collector occurs in such a manner that the concentration of filterable PM in the exhaust gas does not exceed 0.02 gr/dscf.

[Compliance with this streamlined permit condition assures compliance with 25 Pa. Code § 123.13(c)(1)(i).]

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.**

The permittee shall monitor the differential pressure (inches of water) across this dust collector on an operating day basis.

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

The permittee shall keep records of the differential pressure (inches of water) across this dust collector on an operating day basis.

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

The permittee shall keep records of all maintenance performed for this dust collector. These records shall contain, at a minimum, the following:

(a) The date and time of the maintenance.

(b) The type of maintenance performed.

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

The permittee shall ensure that this dust collector is operating whenever brass or bronze is being charged in any of the electric induction furnaces (Source ID 102) and/or castings are being shaken out in the casting shakeout operation (Source ID 105).

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

The permittee shall operate and maintain a differential pressure gauge to indicate the differential pressure across this dust collector. The permittee shall maintain the differential pressure across the dust collector within the range of 2–8 inches of water.

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

The permittee shall ensure that the acoustic horn used to clean the filter bags used in this dust collector is operated at least once per operating week, or as needed.

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

The permittee shall ensure that the filter bags used in this dust collector are replaced as needed. The permittee shall keep a sufficient quantity of spare filter bags on hand for replacement of any deteriorated or ineffective filter bags.

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

The permittee shall ensure that the dust collection drums at the bottom of this dust collector are emptied on a quarterly basis, or as needed.

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

(a) This source consists of an acoustic horn-cleaned dust collector, model type/no. Sky-Kleen SI-1-18, manufactured by Johnson-March Corp. The dust collector is rated at 12,000 acfm exhaust gas flow (at 4 inches of water), and uses 450 woven fabric (cotton) filter bags.

(b) PM emissions from the electric induction furnaces (Source ID 102) and the casting shakeout operation (Source ID 105) are ducted to the dust collector before exhausting into the outdoor atmosphere.



SECTION E. Source Group Restrictions.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
106A	BELT GRINDERS (4) AND CUT-OFF SAWS (2)		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Filterable; At the Outlet of the Associated Dust Collector	TSP
106B	WHEEL BLAST CLEANING MACHINE		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Filterable; At the Outlet of the Associated Dust Collector	TSP
C01	ELEC INDUCTION FURNACES AND CASTING SHAKEOUT OPER DUST COLL		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Filterable; From Source IDs 102 and/or 105	TSP

Site Emission Restriction Summary

Emission Limit	Pollutant
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**SECTION H. Miscellaneous.**

- (a) The following previously-issued Operating Permits serve as the basis for certain terms and conditions set forth in this permit:
- (1) Operating Permit No. 09-308-001.
 - (2) Operating Permit No. 09-399-036.
- (b) Pursuant to Condition # 010(d), Section C, of this permit, on January 30, 2009, the Department reduced the frequency of monitoring the facility for objectionable odors, visible air contaminant emissions, and fugitive air contaminant emissions to "at least once per month." The Department reserves the right to change this frequency of monitoring pursuant to Condition # 010(e), Section C, of this permit.
- (c) The following sources have been determined by the Department to be insignificant sources of air emissions and, therefore, do not require additional restrictions, monitoring, or recordkeeping. They are still subject to any applicable federal, state, and local laws and regulations, including those indicated in Section C, of this permit:
- (1) A natural gas-fired core oven. The core oven is rated at <2 mmBtu/hr heat input.
 - (2) Eleven natural gas-fired infrared space heaters, model no. 3E133D, manufactured by Dayton Electric Mfg. Co. Each space heater is rated at 60 mBtu/hr heat input (0.66 mmBtu/hr total).
 - (3) A No. 2 fuel oil-fired boiler, model no. FR-147/173-W, manufactured by New Yorker Boiler Co., Inc. The boiler is rated at 147/173 mBtu/hr heat input, and is used to provide comfort heat for the office.
 - (4) A 1,000-gal No. 2 fuel oil AST (Source ID FML01).
 - (5) A 266-gal No. 2 fuel oil AST associated with (c)(3), above.
 - (6) Propane-fueled forklifts.
 - (7) Shell core making.
 - (8) No-bake core/mold making.
 - (9) Two sand storage tanks.
 - (10) A sand handling system.
 - (11) Portable metalworking equipment.
 - (12) Bench-scale laboratory equipment.
- (d) On April 3, 2020, the Department approved the installation and operation of a natural gas-fired crucible furnace, model no. DO-1000, manufactured by McEnglevan Industrial Furnace Company, Inc., under Request for Determination of Requirement for Plan Approval/Operating Permit (RFD) No. 8345. As of the date of issuance of this permit, the crucible furnace is located onsite but not installed. The permittee shall notify the Department prior to installation of the crucible furnace. Upon installation, the permittee shall monitor and maintain records of the amounts of aluminum charged and natural gas consumed on a monthly basis.
- (e) This permit (APS ID 943670, Auth ID 1187100) is a renewal of State Only Operating Permit No. 09-00114, originally issued on November 18, 2002 (APS ID 345467, Auth ID 354273); previously renewed on January 30, 2009 (APS ID 345467, Auth ID 691521), October 10, 2014 (APS ID 345467, Auth ID 986947), and October 11, 2019 (APS ID 345467, Auth ID 1272539); and previously amended on July 17, 2017 (APS ID 943670, Auth ID 1187100). The following is a listing of the changes reflected in this permit:
- (1) The federal tax ID/plant code on the cover page of the previously-renewed permit (same location in this permit) has been changed to 93-4138021-1.
 - (2) The owner and plant names on the cover page of the previously-renewed permit (same locations in this permit) have been changed to BDJ Foundry, LLC.
 - (3) An e-mail address for the responsible official/permit contact person has been added to the cover page of this permit.

**SECTION H. Miscellaneous.**

(4) The source names for the following source grouping and emission point grouping, as indicated in Sections A and D, of the previously-renewed permit (same locations in this permit), have been changed ([deleted from source name]):

Source ID	Source Name
103	No. 2 Fuel Oil-Fired Crucible Furnace[s (2)]
Z03	Crucible Furnace[s] Fugitive Emissions

(5) The following for Condition # 003, Section B, of the previously-renewed permit (same condition number in this permit):

(i) The citation to 25 Pa. Code § 127.703(c) has been removed.

(ii) The following for Sub-condition (c):

(A) References to an annual operating permit administrative fee and 25 Pa. Code § 127.703(c) have been removed.

(B) The language of the second sentence has been changed to require the permittee to submit the application fee "with the fee form to the respective regional office."

(C) The application and annual operating permit administrative fee schedule, as specified in Sub-condition (c)(1)–(2), has been removed.

(6) The following for Condition # 004, Section B, of the previously-renewed permit (same condition number in this permit):

(i) The application and annual operating permit administrative fee schedules, as specified in Sub-conditions (a)–(b), respectively, have been removed.

(ii) The following for Sub-condition (c):

(A) It has been reorganized as Sub-condition (b).

(B) The phrase "with the permit number clearly indicated and submitted to the respective regional office" has been added to the end of the sub-condition.

(iii) An annual operating permit maintenance fee schedule for synthetic minor and non-synthetic minor facilities has been added as Sub-conditions (a)(1)–(2), respectively.

(7) The following for Condition # 011, Section B, of the previously-renewed permit (same condition number in this permit):

(i) Citations to 25 Pa. Code §§ 127.465 and 127.703 have been added.

(ii) The following for Sub-condition (d):

(A) The references to 25 Pa. Code § 127.541 and "the public notification procedures in [25 Pa. Code] §§ 127.424 and 127.425" have been removed.

(B) A requirement to "submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465" has been added.

(iii) A statement that "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" has been added as Sub-condition (e).

(8) The exceptions for emission into the outdoor atmosphere of fugitive air contaminants from blasting in open pit mines and coke oven batteries indicated in Condition # 002(a)(7)–(8), Section C, of the previously-renewed permit, respectively, have been removed.

(9) The exception for emission into the outdoor atmosphere of visible air contaminants from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions indicated in Condition # 006(b), Section C, of the previously-renewed permit, has been removed.

**SECTION H. Miscellaneous.**

(10) The following for Condition # 012, Section C, of the previously-renewed permit (same condition number in this permit):

(i) Sub-condition (a) has been removed.

(ii) Items to be maintained for the record of deviations have been added as all or part of Sub-condition (a)(1)–(3).

(iii) A requirement that the monitoring be recorded and maintained in a Department-approved format and time frame has been added as Sub-condition (b).

(11) Condition # 014, Section C, of the previously-renewed permit (same condition number in this permit), has been updated to include additional requirements pertaining to malfunctions, as well as new requirements pertaining to emergencies and incidents of excess emissions.

(12) Condition # 016, Section C, of the original permit, has been moved to Condition # 023, Section B, of this permit.

(13) The citation for Condition # 017, Section C, of the previously-renewed permit (Condition # 016, Section C, of this permit), has been changed from 25 Pa. Code § 123.1 to 25 Pa. Code § 127.441 (with an additional authority citation to 25 Pa. Code § 123.1(c)).

(14) The source description for the No. 2 fuel oil-fired crucible furnaces, as indicated in Condition # 006, Section D (under Source ID 103), of the previously-renewed permit (same condition number in this permit), has been updated to indicated that there is only one crucible furnace.



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