



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: April 4, 2023

Effective Date: May 1, 2023

Expiration Date: April 30, 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: 21-05055

Synthetic Minor

Federal Tax Id - Plant Code: 23-0605220-1

Owner Information

Name: FROG SWITCH & MFG CO
Mailing Address: 600 E HIGH ST
CARLISLE, PA 17013-2608

Plant Information

Plant: FROG SWITCH & MFG CO/CARLISLE
Location: 21 Cumberland County 21001 Carlisle Borough
SIC Code: 3325 Manufacturing - Steel Foundries, Nec

Responsible Official

Name: DARRELL RUTH
Title: CEO
Phone: (717) 243 - 2454 Ext.270 Email: druth@frogswitch.com

Permit Contact Person

Name: DANIEL GIBBS
Title: EHS DIRECTOR/MAINT
Phone: (717) 243 - 2454 Ext.209 Email: dgibbs@frogswitch.com

[Signature] _____
WILLIAM R. WEAVER, SOUTH CENTRAL REGION AIR PROGRAM MANAGER



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
- #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
103A	HEAT TREAT FURNACE 1	20.000 MMBTU/HR	
		35.000 Tons/HR	STEEL
		20.000 MCF/HR	Natural Gas
103B	HEAT TREAT FURNACE 2	12.000 MMBTU/HR	
		10.000 Tons/HR	STEEL
		12.000 MCF/HR	Natural Gas
103C	HEAT TREAT FURNACE 3	8.000 MMBTU/HR	
		6.000 Tons/HR	STEEL
		8.000 MCF/HR	Natural Gas
103E	HEAT TREAT FURNACE 4	8.000 MMBTU/HR	
		6.000 Tons/HR	STEEL
		8.000 MCF/HR	Natural Gas
106	V3 PROCESS MOLD WASHING	48.000 Lbs/HR	SOLVENT - TOTAL
107B	V3 PROCESS SAND RECLAIM OPERATIONS	25.000 Tons/HR	OLIVINE SAND
108	MACHINING & GRINDING OPERATIONS	N/A	
110	CORE ROOM PERMIX HOPPER/SAND MIXER/ SAND SILO	N/A	
111	ARC-AIR / WELDING BOOTHS	N/A	
112	SWNDLL-DRSSLR ELEC ARC #3	5.000 Tons/HR	STEEL PRODUCED
113	SWNDLL DRSSLR ELEC ARC #4	5.000 Tons/HR	STEEL PRODUCED
114	DEGREASING OPERATIONS	N/A	
115A	HILL TORCH CUTTING	5.000 Tons/HR	STEEL CASTINGS
		1.700 Lbs/HR	PROPYLENE GAS
116A	MISCELLANEOUS NATURAL GAS-FIRED PROCESSES	10.430 MMBTU/HR	
		10.430 MCF/HR	Natural Gas
120	V-PROCESS NO. 3	25.000 Tons/HR	OLIVINE SAND
122B	PIG POT MOLDING / NO BAKE SAND PROCESS		
134	CORE WASH/CURE	15.000 Lbs/HR	SOLVENT
136	SCRAPYARD TORCH CUTTING BOOTH	1.700 Lbs/HR	PROPYLENE GAS
137	CASTING PAINTING	1.300 Lbs/HR	VOC
148	FURNACE CHARGING	10.000 Tons/HR	METAL MELTED
149	FURNACE POURING	10.000 Tons/HR	METAL MELTED
150	MOLD COOLING	10.000 Tons/HR	METAL MELTED
C01	EAST PANGBORN BAGHOUSE #3		
C02	WEST PANGBORN BAGHOUSE #4		
C108A	TORIT BAGHOUSE		
C128	DUST HOG CARTRIDGE COLLECTOR		
C129	TORIT DUST COLLECTOR		
C130	UNITED AIR SPECIALIST DUST COLLECTOR		
C15	DUST HOG CARTRIDGE COLLECTOR		
C151A	DONALDSON TORIT FABRIC COLLECTOR		

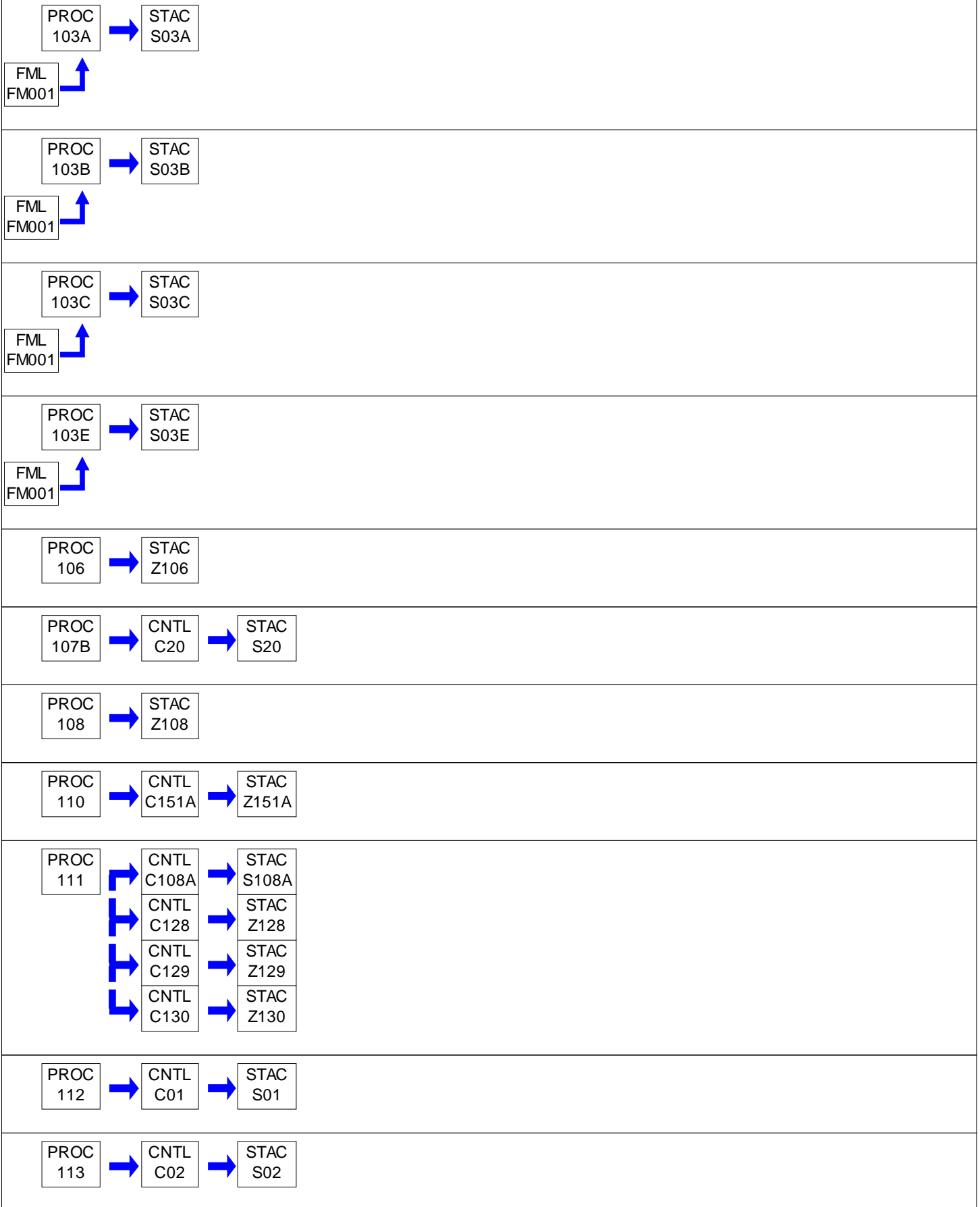
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C20	WHEELEBRATOR-FRYE BAGHOUSE		
C220	DUST HOG CARTRIDGE COLLECTOR		
C24	BUELL/ENVIROTECH BAGHOUSE #1		
C25B	TORIT DOWNFLO DUST COLLECTOR		
C32A	TORIT CARTRIDGE COLLECTOR		
FM001	NATURAL GAS SUPPLY		
FM004	PROPYLENE GAS		
S01	EAST PANGBORN BAGHOUSE #3		
S02	WEST PANGBORN BAGHOUSE #4		
S03A	HEAT TREAT STACK 1		
S03B	HEAT TREAT STACK 2		
S03C	HEAT TREAT STACK 3		
S03E	HEAT TREAT STACK 4		
S108A	TORIT DUST COLLECTOR STACK		
S116A	MISCELLANEOUS NG-FIRED PROCESSES STACKS		
S15A	DUST HOG CARTRIDGE COLLECTOR STACK		
S20	V-PROCESS NO. 3 STACK		
S24	SAND RECLAIM - BUELL		
S31A	TORIT CARTRIDGE COLLECTOR STACK		
Z106	V3 PROCESS MOLD WASH FUGITIVE		
Z108	GRINDING OPERATIONS FUGITIVE EMISSIONS		
Z114	DEGREASING FUGITIVES		
Z116A	MISC. NG-FIRED PROCESSES FUGITIVE EMISSIONS		
Z120	V-PROCESS NO. 3 FUGITIVE EMISSIONS		
Z128	PRIMARY ARC-AIR/WELDING BOOTH FUGITIVE EMISSIONS		
Z129	ARC-AIR/WELDING BOOTH #1 FUGITIVE EMISSIONS		
Z130	ARC-AIR/WELDING BOOTH #2 FUGITIVE EMISSIONS		
Z151A	SOURCE 110 FUGITIVE EMISSIONS		
Z17	METAL PARTS CLEAN. FUGITI		
Z25B	PIG POT MOLDING / NO BAKE SAND FUGITIVE EMISSIONS		
Z34	CORE WASH/CURE		
Z48	CHARGING EMISSIONS		
Z49	POURING EMISSIONS		
Z50	COOLING EMISSIONS		

PERMIT MAPS

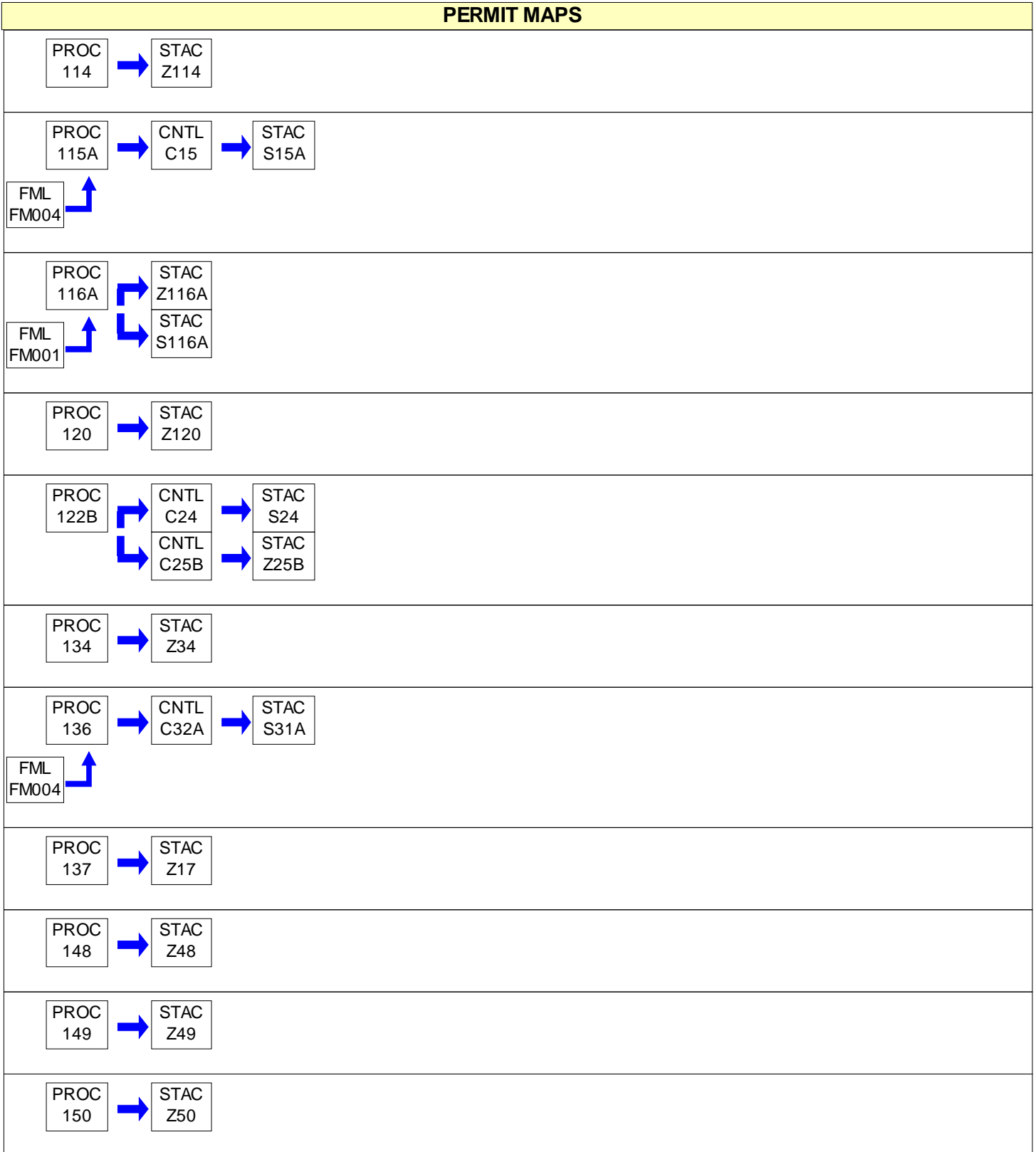


PERMIT MAPS





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_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 § 127.11]**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 allow the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (a) Construction or demolition of buildings or structures.
- (b) Grading, paving, and maintenance of roads and streets.
- (c) Use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered as emissions from use of roads and streets.
- (d) Clearing of land.
- (e) Stockpiling of materials.
- (f) Open burning of clearing and grubbing wastes (trees, shrubs and other native vegetation which are cleared from land during or prior to the process of construction; does not include demolition wastes and dirt-laden roots).
- (g) Sources and classes of sources other than those identified in (a)-(f), above, for which the permittee has obtained a determination from the Department, in accordance with 25 Pa. Code §123.1(b), that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution; and
 - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

[Compliance with the requirement(s) specified in this streamlined operating permit condition assures compliance with the fugitive emission limit specified in 40 CFR §63.10895(e)]

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

The permittee shall not allow the emission of fugitive particulate matter into the outdoor atmosphere from a source specified in Section C, Condition #001(a)-(g), if the emissions are visible at the point the emissions pass outside the permittee's property.

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

The permittee shall not allow the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the permittee's property.

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

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

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

005 [25 Pa. Code §123.42]**Exceptions**

The emission limitations of Section C, Condition #004, shall not apply when:

- (a) The presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of

**SECTION C. Site Level Requirements**

visible emissions.

(c) The emission results from sources specified in Section C, Condition #001(a)-(g).

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

The permittee shall limit the facility's annual emissions to less than the following thresholds during any consecutive 12-month period:

- (a) 100 tons per year (TPY) of nitrogen oxides (NO_x).
- (b) 100 TPY of carbon monoxide (CO).
- (c) 50 TPY of volatile organic compounds (VOC).
- (d) 100 TPY of sulfur oxides (SO_x).
- (e) 100 TPY of PM-10 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 10 micron body).
- (f) 100 TPY of PM-2.5 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 2.5 micron body).
- (g) 10 TPY of any individual hazardous air pollutant (HAP).
- (h) 25 TPY of aggregate HAPs.

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

(a) The permittee shall not allow the open burning of material on the permittee's property in a manner such that:

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

(b) The requirements of (a), above, do not apply when the open burning operations result from:

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set solely for recreational or ceremonial purposes.
- (5) A fire set solely for cooking food.

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

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

The Department reserves the right to require exhaust stack testing of the sources referenced in this operating permit to measure emissions for purposes including verification of operating permit condition compliance and estimation of annual

**SECTION C. Site Level Requirements**

air emissions.

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

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

010 [25 Pa. Code §139.11]**General requirements.**

(a) As specified in 25 Pa. Code §139.11(1), performance tests shall be conducted while the 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.

(b) As specified in 25 Pa. Code §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, at a minimum, all of the following:

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the production rate, fuel firing rate, and other conditions which may affect emissions from the process.
- (3) The location of the sampling ports.
- (4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂, and N₂), static and barometric pressures.
- (5) 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.
- (6) Laboratory procedures and results.
- (7) Calculated results.

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions (referenced in Section C, Conditions #004, #005, and #012) may be measured using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements (e.g. Continuous Opacity Monitor).
- (b) Observers trained and certified in EPA Reference Method 9 to measure plume opacity with the naked eye; or with the aid of any device(s) approved by the Department.

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

The permittee shall conduct a daily inspection around the plant periphery during daylight hours when the plant is in production to detect visible emissions, fugitive particulate matter emissions, and malodorous air contaminants. Daily inspections are necessary to determine:

- (a) The presence of visible emissions as stated in Section C, Condition #004. Visible emissions may be measured

**SECTION C. Site Level Requirements**

according to the methods specified in Section C, Condition #011. Alternately, plant personnel who observe visible emissions may report the incidence of visible emissions to the Department within two (2) hours of the incident and make arrangements for a certified observer to measure the visible emissions.

(b) The presence of fugitive particulate matter emissions beyond the plant property boundaries, as stated in Section C, Condition #002.

(c) The presence of malodorous air contaminants beyond the plant property boundaries, as stated in Section C, Condition #003.

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

The permittee shall monitor and record the pressure differential across each fabric collector or other particulate matter (PM) control device. At a minimum, these readings shall be taken once per day while the sources and PM control devices are in operation. These recordings shall be maintained on-site for the most recent five-year period. The records shall be made available to the Department upon its request.

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

(a) The permittee shall maintain records of the daily inspections referenced in Section C, Condition #012. The records shall include, at a minimum, the following information:

(1) The name of the company representative monitoring each inspection.

(2) The date and time of each inspection.

(3) The wind direction during each inspection.

(4) A description of the visible emissions, fugitive particulate matter emissions (beyond the plant property boundaries), and malodorous air contaminants (beyond the plant property boundaries) observed, if any, and actions taken to mitigate them. If no visible emissions or fugitive particulate matter emissions or malodors are observed, then document that none were observed.

(b) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

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

(a) The permittee shall calculate the monthly air emissions from the facility using material balance, AP-42 emission factors, manufacturer-supplied emission factors, performance (stack) test data, or other method(s) acceptable to the Department. The permittee shall maintain records of the facility's monthly air emissions and calculations.

(b) The permittee shall calculate the cumulative facility air emissions for each consecutive 12-month period. The permittee shall maintain records of the cumulative facility air emissions for each consecutive 12-month period in order to demonstrate compliance with Section C, Condition #006.

(c) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

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

(a) The permittee shall maintain records of the monthly usage of each fuel consumed at the entire facility.

(b) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

**SECTION C. Site Level Requirements****V. REPORTING REQUIREMENTS.****# 017 [25 Pa. Code §127.442]****Reporting requirements.**

The permittee shall report malfunctions which occur at the facility 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 that may result in an increase in air emissions above minor significance. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

(a) Malfunctions which pose an imminent danger to public health, safety, welfare and the environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two hours after discovery of the incident. Telephone reports can be made to the Air Quality Program at (717) 705-4702 during normal business hours, or to the Department's Emergency Hotline 866-825-0208 at any time. The Emergency Hotline phone number is changed/updated periodically. The current Emergency Hotline phone number can be found at <https://www.dep.pa.gov/About/Regional/SouthcentralRegion/Pages/default.aspx>.

(1) The notice shall describe the:

- (i) name and location of the facility;
- (ii) nature and cause of the malfunction or breakdown;
- (iii) time when the malfunction or breakdown was first observed;
- (iv) expected duration of excess emissions; and
- (v) estimated rate of emissions.

(2) The owner or operator shall notify the Department immediately when corrective measures have been accomplished.

(3) The permittee shall submit a written report of instances of such malfunctions to the department, in writing, within three (3) days of the of the telephone report.

(4) The owner or operator shall submit reports on the operation and maintenance of the source to the Regional Air Program Manager at such intervals and in such form and detail as may be required by the Department. Information required in the reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and maintenance schedules.

(b) Unless otherwise required by this permit, any other malfunction that is not subject to the reporting requirements of (a) above, shall be reported to the Department, in writing, within five (5) days of discovery of the malfunction.

(c) Malfunctions shall be reported electronically to DEP at the following email address: dbubbenmoy@pa.gov

018 [25 Pa. Code §135.3]**Reporting**

(a) The annual air emissions report required in Condition #023, Section B shall be submitted via the DEP Greenport web application available through: <https://greenport.pa.gov/gpl>

(b) The facility's annual fuel usage shall be included in the annual air emissions report.

(c) The monthly air emissions and calculations referenced in Section C, Condition #015, shall be included in the annual air emissions report.

VI. WORK PRACTICE REQUIREMENTS.**# 019 [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 Section C, Condition #001(a)-(g). These actions shall include, but not be limited to, the following:

**SECTION C. Site Level Requirements**

(a) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

(b) Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.

(c) Paving and maintenance of roadways.

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

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

Operation of any air emissions source is contingent upon proper operation of its associated air emissions control system, unless otherwise approved by the Department.

021 [25 Pa. Code §127.444]**Compliance requirements.**

The permittee shall operate and maintain all sources and any air cleaning devices identified in this operating permit in accordance with the manufacturer's recommendations/specifications, as well as in a manner consistent with good operating and air pollution control practices that minimize air emissions.

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.

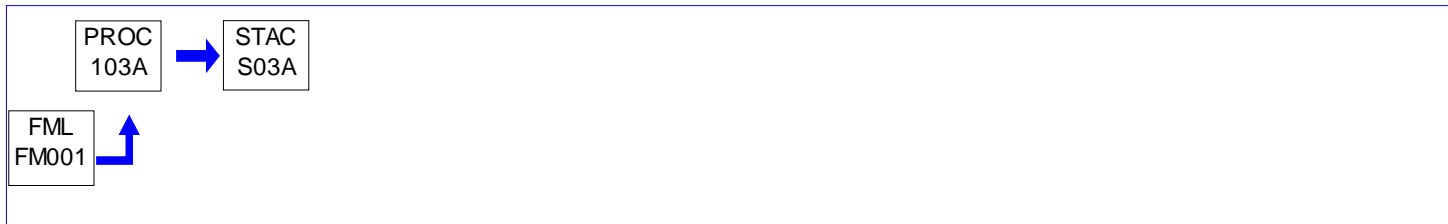
**SECTION D. Source Level Requirements**

Source ID: 103A

Source Name: HEAT TREAT FURNACE 1

Source Capacity/Throughput:	20.000	MMBTU/HR	
	35.000	Tons/HR	STEEL
	20.000	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: GRP04
GRP06

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

001 [25 Pa. Code §123.21]

General

The concentration of sulfur oxides (SO_x), expressed as sulfur dioxide (SO₂), in Source ID 103A's effluent gas shall not exceed 500 parts per million, by volume (dry basis).

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate Source ID 103A using natural gas fuel only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

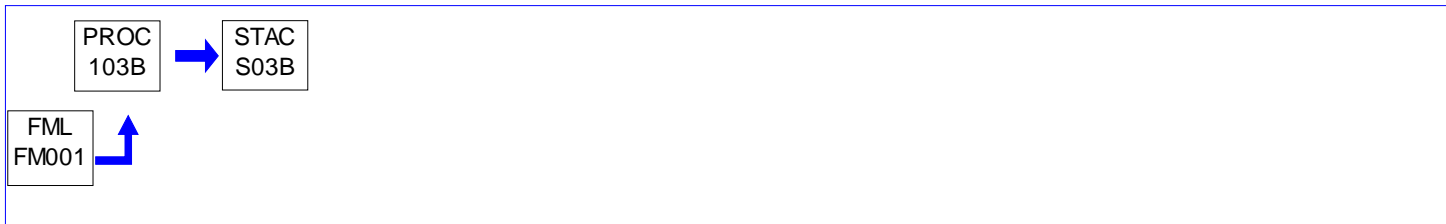
**SECTION D. Source Level Requirements**

Source ID: 103B

Source Name: HEAT TREAT FURNACE 2

Source Capacity/Throughput:	12.000	MMBTU/HR	
	10.000	Tons/HR	STEEL
	12.000	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: GRP04
GRP06

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

001 [25 Pa. Code §123.21]

General

The concentration of sulfur oxides (SO_x), expressed as sulfur dioxide (SO₂), in Source ID 103B's effluent gas shall not exceed 500 parts per million, by volume (dry basis).

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate Source ID 103B using natural gas fuel only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION D. Source Level Requirements**

Source ID: 103C

Source Name: HEAT TREAT FURNACE 3

Source Capacity/Throughput:	8.000	MMBTU/HR	
	6.000	Tons/HR	STEEL
	8.000	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: GRP04
GRP06

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

001 [25 Pa. Code §123.21]

General

The concentration of sulfur oxides (SO_x), expressed as sulfur dioxide (SO₂), in Source ID 103C's effluent gas shall not exceed 500 parts per million, by volume (dry basis).

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate Source ID 103C using natural gas fuel only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

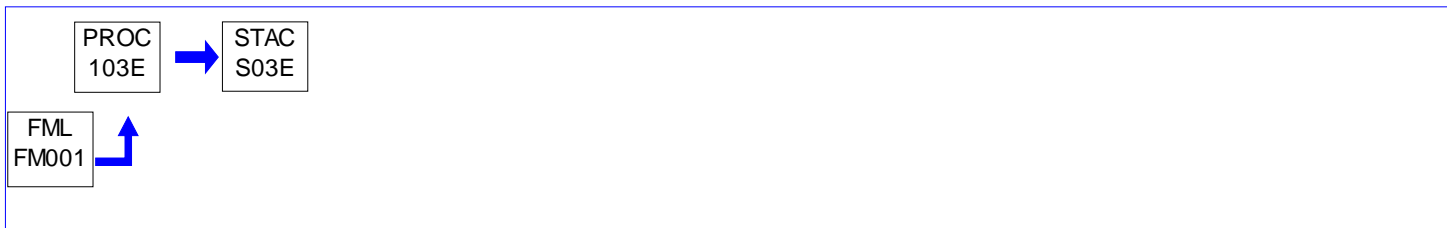
**SECTION D. Source Level Requirements**

Source ID: 103E

Source Name: HEAT TREAT FURNACE 4

Source Capacity/Throughput:	8.000	MMBTU/HR	
	6.000	Tons/HR	STEEL
	8.000	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: GRP04

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.1]****Purpose.**

[Additional authority for this permit condition is also derived from Plan Approval No. 21-05011A]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, particulate matter (PM) emissions from Source ID 103E's exhaust stack shall not exceed 0.14 lb/hr.

[Compliance with the requirement(s) specified in this streamlined operating permit condition assures compliance with the PM emission limit specified in 25 Pa. Code §123.13(c)(1)(i)]

002 [25 Pa. Code §127.1]**Purpose.**

[Additional authority for this permit condition is also derived from Plan Approval No. 21-05011A]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, sulfur dioxide (SO₂) emissions from Source ID 103E's exhaust stack shall not exceed 0.01 lb/hr.[Compliance with the requirement(s) specified in this streamlined operating permit condition assures compliance with the sulfur oxides (expressed as SO₂) emission limit specified in 25 Pa. Code §123.21]**Fuel Restriction(s).****# 003 [25 Pa. Code §127.1]****Purpose.**

[Additional authority for this permit condition is also derived from Plan Approval No. 21-05011A]

The permittee shall operate Source ID 103E using natural gas fuel only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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



SECTION D. Source Level 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) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 106

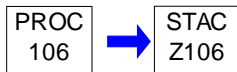
Source Name: V3 PROCESS MOLD WASHING

Source Capacity/Throughput:

48.000 Lbs/HR

SOLVENT - TOTAL

Conditions for this source occur in the following groups: GRP02
GRP04

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

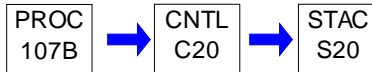
**SECTION D. Source Level Requirements**

Source ID: 107B

Source Name: V3 PROCESS SAND RECLAIM OPERATIONS

Source Capacity/Throughput: 25.000 Tons/HR OLIVINE SAND

Conditions for this source occur in the following groups: GRP04
GRP05
GRP06

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

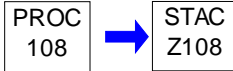
Source ID: 108

Source Name: MACHINING & GRINDING OPERATIONS

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: GRP04

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: CORE ROOM PERMIX HOPPER/SAND MIXER/ SAND SILO

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: GRP04
GRP05

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 111

Source Name: ARC-AIR / WELDING BOOTHS

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: GRP04
GRP05
GRP06

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

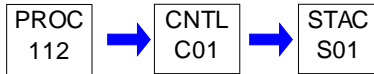
**SECTION D. Source Level Requirements**

Source ID: 112

Source Name: SWNDLL-DRSSLR ELEC ARC #3

Source Capacity/Throughput: 5.000 Tons/HR STEEL PRODUCED

Conditions for this source occur in the following groups: GRP04
GRP05
GRP06

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 113

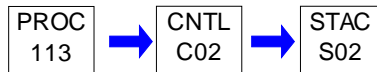
Source Name: SWNDLL DRSSLR ELEC ARC #4

Source Capacity/Throughput:

5.000 Tons/HR

STEEL PRODUCED

Conditions for this source occur in the following groups: GRP04
GRP05
GRP06

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

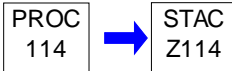
**SECTION D. Source Level Requirements**

Source ID: 114

Source Name: DEGREASING OPERATIONS

Source Capacity/Throughput:

N/A

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

Degreasing activities shall be conducted in accordance with the applicable requirements of 25 Pa. Code §129.63 to include the following:

- (a) Cold cleaning machines shall not employ any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.
- (b) This permit condition does not apply.
 - (1) If the permittee demonstrates, and the Department approves in writing, that compliance with this permit condition will result in unsafe operating conditions.
 - (2) To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

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 §129.63]****Degreasing operations**

The permittee shall maintain the following records:

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

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

The permittee shall retain these records for a minimum of two (2) years and shall make them available to the Department upon its request.

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 003 [25 Pa. Code §129.63]****Degreasing operations**

Immersion cold cleaning machines shall have a freeboard ratio of 0.50 or greater.

004 [25 Pa. Code §129.63]**Degreasing operations**

The permittee shall operate the cold cleaning machines in accordance with the following procedures:

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

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

Cold cleaning machines shall be equipped with one of the following:

- (a) A cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent.
- (b) A perforated drain with a diameter of not more than six (6) inches, if the unit drains directly into the solvent storage reservoir.

006 [25 Pa. Code §129.63]**Degreasing operations**

Cold cleaning machines shall have a permanent, conspicuous label summarizing the operating requirements in Condition #004, above. In addition, the label shall include the following discretionary good operating practices:

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

007 [25 Pa. Code §129.63]**Degreasing operations**

The aforementioned permit conditions apply to Source ID 114 so long as the cold cleaning machine uses 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

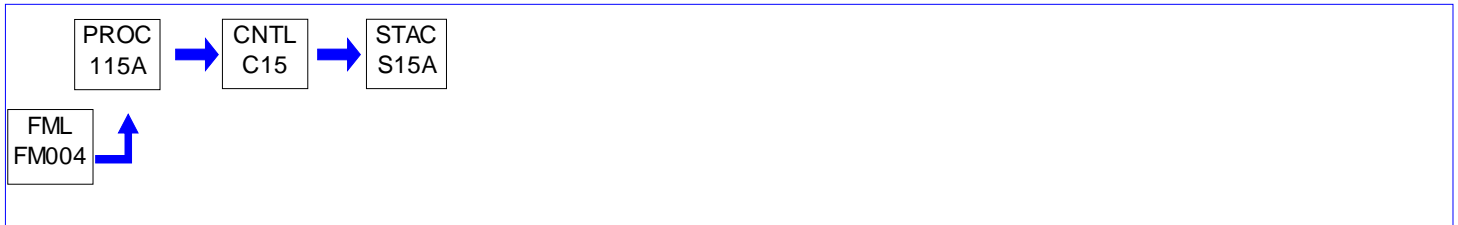
**SECTION D. Source Level Requirements**

Source ID: 115A

Source Name: HILL TORCH CUTTING

Source Capacity/Throughput:	5.000 Tons/HR	STEEL CASTINGS
	1.700 Lbs/HR	PROPYLENE GAS

Conditions for this source occur in the following groups: GRP04
GRP05
GRP06

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

001 [25 Pa. Code §123.21]

General

The concentration of sulfur oxides (SO_x), expressed as sulfur dioxide (SO₂), in Source ID C15's effluent gas shall not exceed 500 parts per million, by volume (dry basis).

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate Source ID 115A using propylene gas (or equivalent) fuel only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

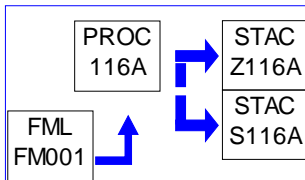
**SECTION D. Source Level Requirements**

Source ID: 116A

Source Name: MISCELLANEOUS NATURAL GAS-FIRED PROCESSES

Source Capacity/Throughput: 10.430 MMBTU/HR

10.430 MCF/HR Natural Gas

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

(a) Particulate matter (PM) emissions from each Source ID 116A process's exhaust shall not exceed 0.04 grain per dry standard cubic foot.

(b) The PM emission rate limitation of part (a), above, only applies to those Source ID 116A processes having a flue. Flue, as defined in 25 Pa. Code Section 121.1, means a duct, pipe, stack, chimney or conduit permitting air contaminants to be emitted into the outdoor atmosphere which is of a nature so as to permit the performance of the test methods and procedures specified in Chapter 139 (relating to sampling and testing).

002 [25 Pa. Code §123.21]**General**

(a) The concentration of sulfur oxides (SO_x), expressed as sulfur dioxide (SO₂), in each Source ID 116A process's effluent gas shall not exceed 500 parts per million, by volume (dry basis).

(b) The SO_x emission rate limitation of part (a), above, only applies to those Source ID 116A processes having a flue. Flue, as defined in 25 Pa. Code Section 121.1, means a duct, pipe, stack, chimney or conduit permitting air contaminants to be emitted into the outdoor atmosphere which is of a nature so as to permit the performance of the test methods and procedures specified in Chapter 139 (relating to sampling and testing).

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

The permittee shall operate each Source ID 116A process using natural gas fuel only.

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).

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

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

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

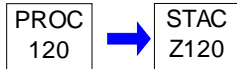
**SECTION D. Source Level Requirements**

Source ID: 120

Source Name: V-PROCESS NO. 3

Source Capacity/Throughput: 25.000 Tons/HR OLIVINE SAND

Conditions for this source occur in the following groups: GRP04

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

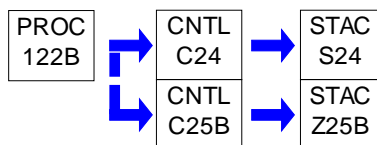
**SECTION D. Source Level Requirements**

Source ID: 122B

Source Name: PIG POT MOLDING / NO BAKE SAND PROCESS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GRP04
GRP05
GRP06

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 134

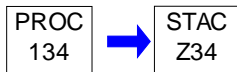
Source Name: CORE WASH/CURE

Source Capacity/Throughput:

15.000 Lbs/HR

SOLVENT

Conditions for this source occur in the following groups: GRP02
GRP04

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 136

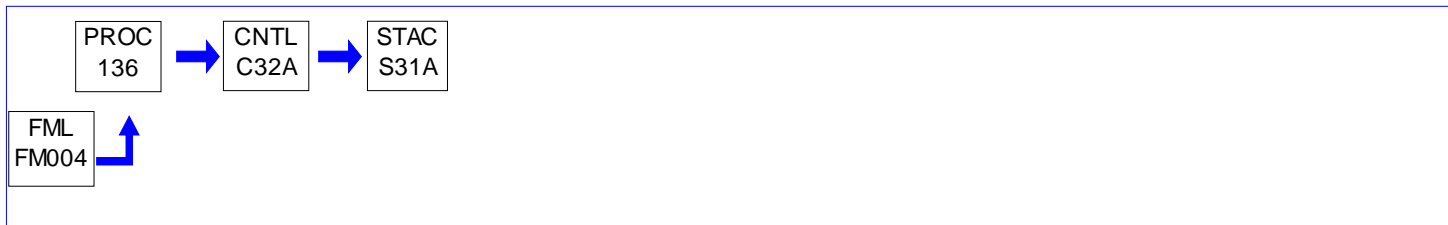
Source Name: SCRAPYARD TORCH CUTTING BOOTH

Source Capacity/Throughput:

1.700 Lbs/HR

PROPYLENE GAS

Conditions for this source occur in the following groups: GRP04
GRP05
GRP06

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

001 [25 Pa. Code §123.21]

General

The concentration of sulfur oxides (SO_x), expressed as sulfur dioxide (SO₂), in Source ID C32's effluent gas shall not exceed 500 parts per million, by volume (dry basis).

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate Source ID 136 using propylene gas (or equivalent) fuel only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION D. Source Level Requirements**

Source ID: 137

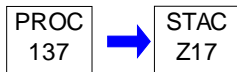
Source Name: CASTING PAINTING

Source Capacity/Throughput:

1.300 Lbs/HR

VOC

Conditions for this source occur in the following groups: GRP03
GRP07

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

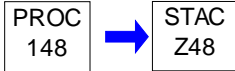
**SECTION D. Source Level Requirements**

Source ID: 148

Source Name: FURNACE CHARGING

Source Capacity/Throughput: 10.000 Tons/HR METAL MELTED

Conditions for this source occur in the following groups: GRP04

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

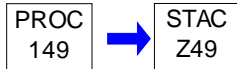
**SECTION D. Source Level Requirements**

Source ID: 149

Source Name: FURNACE POURING

Source Capacity/Throughput: 10.000 Tons/HR METAL MELTED

Conditions for this source occur in the following groups: GRP04

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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



SECTION D. Source Level Requirements

Source ID: 150 Source Name: MOLD COOLING
Source Capacity/Throughput: 10.000 Tons/HR METAL MELTED

Conditions for this source occur in the following groups: GRP04



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: GRP02

Group Description: MOLD WASHING

Sources included in this group

ID	Name
106	V3 PROCESS MOLD WASHING
134	CORE WASH/CURE

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 Operating Permit No. 21-02011]

The maximum VOC content of all mold wash formulations used in the following sources shall not exceed 68.1 percent by volume:

(2) Core Washing/Cure (Source ID 134)

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

[Additional authority for this permit condition is also derived from Operating Permit No. 21-02011]

The maximum VOC content of all mold wash formulations used in the following Source ID 106 processes shall not exceed 10 percent by volume:

(3) V-Process No. 3 Mold Washing

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.**

[Additional authority for this permit condition is also derived from Operating Permit No. 21-02011]

Records of each shipment of VOC-containing waste, including sampling data or waste profile, shall be maintained at the facility for the Group GRP02 sources for the most recent five-year period; this information shall be available to Department representatives upon request.

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

[Additional authority for this permit condition is also derived from Operating Permit No. 21-02011]

Material Safety Data Sheets or manufacturer's data for each core wash, mold wash, solvent, and degreaser used at the Group GRP02 sources shall be maintained at the facility for the most recent five-year period; this information shall be available to Department representatives upon request.

**SECTION E. Source Group Restrictions.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records sufficient to demonstrate compliance with Conditions #001 and #002, above. At a minimum, the permittee shall maintain records of the following:

- (a) Identification of each formulation
- (b) Pounds of VOC per gallon
- (c) Percent solvents by volume (minus EPA-exempted solvents)
- (d) Percent water by volume
- (e) Gallons per month of each formulation used
- (f) Type and amount of clean-up solvents used
- (g) Pounds per month of VOC emissions from molding and coring
- (h) Gallons per month of core washes, mold washes, and waste solvents generated

V. REPORTING REQUIREMENTS.**# 006 [25 Pa. Code §135.3]****Reporting**

[Additional authority for this permit condition is also derived from Operating Permit No. 21-02011]

The permittee shall include the following information in the annual air emissions report referenced in Section C, Condition #018(a), for each VOC-containing mold wash and core wash (as applied) used at the Group GRP02 sources:

- (a) Identification of each formulation
- (b) Pounds of VOC per gallon
- (c) Percent solvents by volume (minus EPA-exempted solvents)
- (d) Percent water by volume
- (e) Gallons per month of each formulation used
- (f) Type and amount of clean-up solvents used
- (g) Pounds per month of VOC emissions from molding and coring
- (h) Gallons per month of core washes, mold washes, and waste solvents generated

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

The permittee shall keep all surface coating containers which contain VOCs tightly closed when not in use. Spills of materials containing VOCs shall be cleaned up immediately with cleaning cloths or other methods that will minimize the evaporation of VOCs into the atmosphere. Solvent-laden cleaning cloths shall be kept in closed containers when not in use.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: GRP03

Group Description: SURFACE COATING OPERATIONS

Sources included in this group

ID	Name
137	CASTING PAINTING

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

[Additional authority for this permit condition is also derived from Operating Permit No. 21-02011]

Material Safety Data Sheets or manufacturer's data for each surface coating, solvent, and degreaser used at the facility shall be maintained at the facility for the most recent five-year period; this information shall be available to Department representatives upon request.

002 [25 Pa. Code §129.52]**Surface coating processes**

The permittee shall maintain daily records of:

(a) The following parameters for each coating, thinner and other component(s) as supplied:

- (1) The coating, thinner or component(s) name and identification number
- (2) The volume used
- (3) The mix ratio for the as applied surface coating
- (4) The density or specific gravity
- (5) The weight percent of total volatiles, water, solids and exempt VOCs
- (6) The volume percent of solids

(b) The VOC content of each coating, thinner and other component(s) as supplied.

(c) The VOC content of each as applied surface coating.

The permittee shall maintain these records for a minimum of five (5) years. The records shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.**# 003 [25 Pa. Code §135.3]****Reporting**

[Additional authority for this permit condition is also derived from Operating Permit No. 21-02011]

(a) The permittee shall include the following information in the annual air emissions report referenced in Section C, Condition #018(a), for each coating, thinner and other component(s) applied at the Group GRP03 sources:

**SECTION E. Source Group Restrictions.**

- (1) Name and identification number
- (2) The VOC content of the coating, thinner and other component(s) as supplied (pounds VOC per gallon of coating solids, minus water and exempt VOCs)
- (3) The VOC content of the as applied surface coating (pounds VOC per gallon of coating solids, minus water and exempt VOCs)
- (4) Coating density (pounds per gallon, at 25°C)
- (5) Percent total volatiles (by weight)
- (6) Percent water (by weight)
- (7) Percent solids (by volume and weight)
- (8) Percent exempt VOC(s) (by weight)
- (9) Percent VOCs (by weight)
- (10) Mix ratio for the as applied surface coating
- (11) Percent hazardous air pollutant(s) [HAP(s)] (by weight and by type)
- (12) Gallons per month used
- (13) Pounds per month of VOC emissions
- (14) Pounds per month of HAP(s) emissions (by type)

The permittee shall also include the type and amount (gallons per month) of VOC/HAP-containing cleanup solvent(s) collectively used in conjunction with the operation of the Group GRP03 sources (i.e., cleaning activities and wash-off operations), as well as the resultant monthly VOC and HAP(s) emissions.

This information shall be reported using VOC Worksheets supplied by the Department, or an equivalent format acceptable to the Department.

- (b) The total days and approximate hours of operation of the Group GRP03 sources shall also be included in the annual report.
- (c) The permittee shall provide the following information for waste coatings, solvents, or mixtures sent off-site for recycling or disposal in order to obtain credit for VOC and HAP(s) emissions reporting of items (a)(13) and (a)(14), respectively, above:
 - (1) Pounds and gallons per month of waste coatings, solvents, or mixtures shipped from the facility
 - (2) Waste profile or sampling data for a representative shipment (conducted a minimum of once each calendar year)
 - (3) Identification of the waste disposal company for each shipment
- (d) The permittee shall include each new surface coating in the annual report and indicate that it is a new surface coating used during the reporting year.

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.

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

**SECTION E. Source Group Restrictions.**

Group Name: GRP04

Group Description: SOURCES SUBJECT TO MACT SUBPART ZZZZZ

Sources included in this group

ID	Name
103A	HEAT TREAT FURNACE 1
103B	HEAT TREAT FURNACE 2
103C	HEAT TREAT FURNACE 3
103E	HEAT TREAT FURNACE 4
106	V3 PROCESS MOLD WASHING
107B	V3 PROCESS SAND RECLAIM OPERATIONS
108	MACHINING & GRINDING OPERATIONS
110	CORE ROOM PERMIX HOPPER/SAND MIXER/ SAND SILO
111	ARC-AIR / WELDING BOOTHS
112	SWNDLL-DRSSLR ELEC ARC #3
113	SWNDLL DRSSLR ELEC ARC #4
115A	HILL TORCH CUTTING
120	V-PROCESS NO. 3
122B	PIG POT MOLDING / NO BAKE SAND PROCESS
134	CORE WASH/CURE
136	SCRAPYARD TORCH CUTTING BOOTH
148	FURNACE CHARGING
149	FURNACE POURING
150	MOLD COOLING

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [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?

(a) If you own or operate an affected source that is a large foundry as defined in 40 CFR §63.10906, you must comply with the pollution prevention management practices in 40 CFR §§63.10885 and 63.10886, the requirements in 40 CFR §§63.10895(b) through (e), below, and the requirements in 40 CFR §§63.10896 through 63.10900.

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

(c) You must not discharge to the atmosphere emissions from any metal melting furnace or group of all metal melting furnaces that exceed the applicable limit in 40 CFR §§63.10895(c)(1) or (2), below. When an alternative emissions limit is provided for a given emissions source, you are not restricted in the selection of which applicable alternative emissions limit is used to demonstrate compliance.

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

(2) [N/A - THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

(d) [N/A - THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

**SECTION E. Source Group Restrictions.**

(e) If you own or operate a new or existing iron and steel foundry, you must not discharge to the atmosphere fugitive emissions from foundry operations that exhibit opacity greater than 20% (6-minute average), except for one 6-minute average per hour that does not exceed 30%. [NOTE: THIS REQUIREMENT IS SUPERSEDED BY 25 Pa. Code §123.1(a), AS WELL AS SECTION C, CONDITION #001, OF THIS OPERATING PERMIT; HOWEVER, THE PERMITTEE SHALL STILL COMPLY WITH THE REQUIREMENTS OF 40 CFR §63.10898(a), (h) & (i)]

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10905]**Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources Who implements and enforces this subpart?**

(a) This subpart can be implemented and enforced by EPA or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the EPA Administrator and are not transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (67) of this section.

(1) Approval of an alternative non-opacity emissions standard under 40 CFR 63.6(g).

(2) Approval of an alternative opacity emissions standard under § 63.6(h)(9).

(3) Approval of a major change to test methods under § 63.7(e)(2)(ii) and (f). A "major change to test method" is defined in § 63.90.

(4) Approval of a major change to monitoring under § 63.8(f). A "major change to monitoring" under is defined in § 63.90.

(5) Approval of a major change to recordkeeping and reporting under § 63.10(f). A "major change to recordkeeping/reporting" is defined in § 63.90.

(6) Approval of a local, State, or national mercury switch removal program under § 63.10885(b)(2).

(7) Approval of an alternative to any electronic reporting to the EPA required by this subpart.

[73 FR 252, Jan. 2, 2008, as amended at 85 FR 56104, Sept. 10, 2020]

II. TESTING REQUIREMENTS.**# 003 [25 Pa. Code §139.11]****General requirements.**

(a) Pursuant to 25 Pa. Code §139.3, at least 30 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. 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 emissions testing program, notification as to the date and time of testing shall be given to the Southcentral Regional Office. Notification shall also be sent to the Bureau of Air Quality's Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

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

**SECTION E. Source Group Restrictions.**

indicating the completion date of the on-site testing.

(d) Pursuant to 40 CFR §63.7(g), a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emissions test program.

(e) Pursuant to 25 Pa. Code §139.53(b), a complete test report shall include a summary of the emissions results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable plan approval/operating 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) Plan approval/operating permit number(s) and condition(s) which are the basis for the evaluation.
- (3) Summary of results with respect to each applicable plan approval/operating permit condition.
- (4) Statement of compliance or non-compliance with each applicable plan approval/operating permit condition.

(f) 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.

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

(h) Pursuant to 25 Pa. Code §§139.53(a)(1) and 139.53(a)(3), all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp>. If internet submittal can not be accomplished, three (3) copies of the submittal shall be sent to the Southcentral Regional Office at the following address, with deadlines verified through document postmarks:

PA DEP
Southcentral Regional Office
Air Quality Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

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

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10898]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my performance test requirements?

(a) You must conduct a performance test to demonstrate initial compliance with the applicable emissions limits for each metal melting furnace or group of all metal melting furnaces that is subject to an emissions limit in 40 CFR §63.10895(c) and for each building or structure housing foundry operations that is subject to the opacity limit for fugitive emissions in 40 CFR §63.10895(e). You must conduct the test within 180 days of your compliance date and report the results in your notification of compliance status. [NOTE: COMPLIANT INITIAL PERFORMANCE TESTING CONDUCTED ON 2/17/09 - 2/19/09 & 3/17/09 - 3/18/09]

- (1) [N/A - PERFORMANCE (STACK) TEST OF GROUP GRP04 EAFS CONDUCTED ON 2/17/09 - 2/19/09]
- (2) [N/A - PERFORMANCE (STACK) TEST OF GROUP GRP04 EAFS CONDUCTED ON 2/17/09 - 2/19/09]
- (3) [N/A - THE GROUP GRP04 FURNACES ARE EAFs; THEY ARE NOT ELECTRIC INDUCTION FURNACES]
- (4) [N/A - THE GROUP GRP04 FURNACES ARE EAFs; THEY ARE NOT ELECTRIC INDUCTION FURNACES]
- (5) [N/A - THE GROUP GRP04 FURNACES ARE EAFs; THEY ARE NOT ELECTRIC INDUCTION FURNACES]

**SECTION E. Source Group Restrictions.**

(b) You must conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP emissions limits in 40 CFR §63.10895(c) for a metal melting furnace or group of all metal melting furnaces no less frequently than every five (5) years and each time you elect to change an operating limit or make a process change likely to increase HAP emissions.

(c) You must conduct each performance test under conditions representative of normal operations according to the requirements in Table 1 to this subpart and paragraphs (d) through (g) of this section. Normal operating conditions exclude periods of startup and shutdown. You may not conduct performance tests during periods of malfunction. You must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, you shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 1 TO 40 CFR PART 63, SUBPART ZZZZZ, ARE LISTED BELOW]

(d) To determine compliance with the applicable PM or total metal HAP emissions limit in 40 CFR §63.10895(c) for a metal melting furnace in a lb/ton of metal charged format, compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of 40 CFR §63.10898, below:

$$E_p = \frac{C \times Q \times T}{P \times K} \quad \{\text{Equation 1}\}$$

Where:

E_p = Process-weighted mass emissions rate of PM or total metal HAP, pounds of PM or total metal HAP per ton (lb/ton) of metal charged;

C = Concentration of PM or total metal HAP measured during performance test run, grains per dry standard cubic foot (gr/dscf);

Q = Volumetric flow rate of exhaust gas, dry standard cubic feet per hour (dscf/hr);

T = Total time during a test run that a sample is withdrawn from the stack during melt production cycle, hr;

P = Total amount of metal charged during the test run, tons; and

K = Conversion factor = 7,000 grains per pound.

(e) To determine compliance with the applicable emissions limit in 40 CFR §63.10895(c) for a group of all metal melting furnaces using emissions averaging,

(1) Determine and record the monthly average charge rate for each metal melting furnace at your iron and steel foundry for the previous calendar month; and

(2) Compute the mass-weighted PM or total metal HAP using Equation 2 of 40 CFR §63.10898, below.

$$E_c = \frac{\text{SUM}\{i = 1 \text{ to } n\}(E_{pi} \times T_{ti})}{\text{SUM}\{i = 1 \text{ to } n\}T_{ti}} \quad \{\text{Equation 2}\}$$

Where:

E_c = The mass-weighted PM or total metal HAP emissions for the group of all metal melting furnaces at the foundry, pounds of PM or total metal HAP per ton of metal charged;

E_{pi} = Process-weighted mass emissions of PM or total metal HAP for individual emission unit i as determined from the performance test and calculated using Equation 1 of 40 CFR §63.10898, above, pounds of PM or total metal HAP per ton of metal charged;

**SECTION E. Source Group Restrictions.**

T_{ii} = Total tons of metal charged for individual emission unit i for the calendar month prior to the performance test, tons; and

n = The total number of metal melting furnaces at the iron and steel foundry.

SUM = Summation

(3) [N/A - THE GROUP GRP04 FURNACES ARE EAFs; THEY ARE NOT ELECTRIC INDUCTION FURNACES]

(f) To determine compliance with the applicable PM or total metal HAP emissions limit for a metal melting furnace in 40 CFR §63.10895(c) when emissions from one or more regulated furnaces are combined with other non-regulated emissions sources, you may demonstrate compliance using the procedures in 40 CFR §63.10898(f)(1) through (3), below.

(1) Determine the PM or total metal HAP process-weighted mass emissions for each of the regulated streams prior to the combination with other exhaust streams or control device.

(2) Measure the flow rate and PM or total metal HAP concentration of the combined exhaust stream both before and after the control device and calculate the mass removal efficiency of the control device using Equation 3 of 40 CFR §63.10898, below.

$$\% \text{ reduction} = \frac{E_i - E_o}{E_i} \times 100\% \quad \{\text{Equation 3}\}$$

Where:

E_i = Mass emissions rate of PM or total metal HAP at the control device inlet (lb/hr);

E_o = Mass emissions rate of PM or total metal HAP at the control device outlet (lb/hr).

(3) Meet the applicable emissions limit based on the calculated PM or total metal HAP process-weighted mass emissions for the regulated emissions source using Equation 4 of 40 CFR §63.10898, below:

$$Ep_{1\text{released}} = Ep_{1i} \times \left(1 - \frac{\% \text{ reduction}}{100}\right) \quad \{\text{Equation 4}\}$$

Where:

$Ep_{1\text{released}}$ = Calculated process-weighted mass emissions of PM (or total metal HAP) predicted to be released to the atmosphere from the regulated emissions source, pounds of PM or total metal HAP per ton of metal charged; and

Ep_{1i} = Process-weighted mass emissions of PM (or total metal HAP) in the uncontrolled regulated exhaust stream, pounds of PM or total metal HAP per ton of metal charged.

(g) To determine compliance with an emissions limit for situations when multiple sources are controlled by a single control device, but only one source operates at a time or other situations that are not expressly considered in 40 CFR §63.10898(d) through (f), above, you must submit a site-specific test plan to the Administrator for approval according to the requirements in 40 CFR §63.7(c)(2) and (3).

(h) You must conduct each opacity test for fugitive emissions according to the requirements in 40 CFR §63.6(h)(5) and Table 1 to 40 CFR Part 63, Subpart ZZZZ. [NOTE: THE APPLICABLE REQUIREMENTS OF TABLE 1 TO 40 CFR PART 63, SUBPART ZZZZ, ARE LISTED BELOW]

(i) You must conduct subsequent performance tests to demonstrate compliance with the opacity limit in 40 CFR §63.10895(e) no less frequently than every six (6) months and each time you make a process change likely to increase fugitive emissions.

**SECTION E. Source Group Restrictions.**

- (j) In your performance test report, you must certify that the capture system operated normally during the performance test.
- (k) [N/A - THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR; ALSO, THE AFFECTED SOURCE DOES NOT EMPLOY A WET SCRUBBER OR AN ELECTROSTATIC PRECIPITATOR]
- (l) [N/A - THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR; ALSO, THE AFFECTED SOURCE DOES NOT EMPLOY A WET SCRUBBER OR AN ELECTROSTATIC PRECIPITATOR; "BAGHOUSE" NOT ADDRESSED IN TABLE 2 OF 40 CFR PART 63, SUBPART ZZZZZ, EVEN THOUGH THE TERM APPEARS IN THE FOLLOWING SENTENCE OF 40 CFR §63.10898(l): "You may change the operating limits for a wet scrubber, electrostatic precipitator, or baghouse if you meet the requirements in paragraphs (l)(1) through (3) of this section."]

[73 FR 252, Jan. 2, 2008, as amended at 85 FR 56102, Sept. 10, 2020]

Table 1 to 40 CFR Part 63, Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources (Performance Test Requirements for New and Existing Affected Sources Classified as Large Foundries)

As required in 40 CFR §63.10898(c) and (h), you must conduct performance tests according to the following test methods and procedures:

- (1) For each metal melting furnace subject to a PM or total metal HAP limit in 40 CFR §63.10895(c), you must:
- (a) Select sampling port locations and the number of traverse points in each stack or duct using EPA Method 1 or 1A (40 CFR Part 60, Appendix A).
 - (b) Determine volumetric flow rate of the stack gas using Method 2, 2A, 2C, 2D, 2F, or 2G (40 CFR Part 60, Appendix A).
 - (c) Determine dry molecular weight of the stack gas using EPA Method 3, 3A, or 3B (40 CFR Part 60, Appendix A)*.
 - (d) Measure moisture content of the stack gas using EPA Method 4 (40 CFR Part 60, Appendix A).
 - (e) Determine PM concentration using EPA Method 5, 5B, 5D, 5F, or 5I, as applicable or total metal HAP concentration using EPA Method 29 (40 CFR Part 60, Appendix A).

NOTE regarding (1), above: Sampling sites must be located at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere. The following requirements are applicable:

- (i) Collect a minimum sample volume of 60 dscf of gas during each PM sampling run. The PM concentration is determined using only the front-half (probe rinse and filter) of the PM catch.
- (ii) For Method 29, only the measured concentration of the listed metal HAP analytes that are present at concentrations exceeding one-half the quantification limit of the analytical method are to be used in the sum. If any of the analytes are not detected or are detected at concentrations less than one-half the quantification limit of the analytical method, the concentration of those analytes is assumed to be zero for the purposes of calculating the total metal HAP.
- (iii) A minimum of three (3) valid test runs are needed to comprise a PM or total metal HAP performance test.
- (iv) [N/A - THE GROUP GRP04 FURNACES ARE EAFs; THEY ARE NOT CUPOLA METAL MELTING FURNACES]
- (v) For electric arc and electric induction metal melting furnaces, sample PM or total metal HAP only during normal melt production conditions, which may include, but are not limited to, the following operations: charging, melting, alloying, refining, slagging, and tapping.
- (vi) Determine and record the total combined weight of tons of metal charged during the duration of each test run. You must compute the process-weighted mass emissions of PM according to Equation 1 of 40 CFR §63.10898(d) for an individual furnace or Equation 2 of 40 CFR §63.10898(e) for the group of all metal melting furnaces at the foundry.

(2) For fugitive emissions from buildings or structures housing any iron and steel foundry emissions sources subject to the opacity limit in 40 CFR §63.10895(e), you must either:

- (a) Using a certified observer, conduct each opacity test according to EPA Method 9 (40 CFR Part 60, Appendix A-4) and 40

**SECTION E. Source Group Restrictions.**

CFR §63.6(h)(5); or

(b) As an alternative to a Method 9 performance test, conduct visible emissions (VE) test by Method 22 (40 CFR Part 60, Appendix A-7). The test is successful if no VE are observed for 90% of the readings over one (1) hour. If VE is observed greater than 10% of the time over one (1) hour, then the facility must conduct another performance test as soon as possible, but no later than 15 calendar days after the Method 22 test, using Method 9 (40 CFR Part 60, Appendix A-4).

NOTE regarding (2)(a), above: The following requirements are applicable:

(i) The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points afford such an observation.

(ii) During testing intervals when PM or total metal HAP performance tests, if applicable, are being conducted, conduct the opacity test such that the opacity observations are recorded during the PM or total metal HAP performance tests.

NOTE regarding (2)(b), above: The following requirements are applicable:

(i) The observer may identify a limited number of openings or vents that appear to have the highest visible emissions and perform observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single observation for the entire building or structure may be performed, if the fugitive release points afford such an observation.

(ii) During testing intervals when PM or total metal HAP performance tests, if applicable, are being conducted, conduct the visible emissions test such that the observations are recorded during the PM or total metal HAP performance tests.

* You may also use as an alternative to EPA Method 3B (40 CFR Part 60, Appendix A), the manual method for measuring the oxygen, carbon dioxide, and carbon monoxide content of exhaust gas, ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses" (incorporated by reference - see 40 CFR §63.14).

III. MONITORING REQUIREMENTS.**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10897]****Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources****What are my monitoring requirements?**

(a) You must conduct an initial inspection of each PM control device for a metal melting furnace at an existing affected source. You must conduct each initial inspection no later than 60 days after your applicable compliance date for each installed control device which has been operated within 60 days of the compliance date. For an installed control device which has not operated within 60 days of the compliance date, you must conduct an initial inspection prior to startup of the control device. Following the initial inspections, you must perform periodic inspections and maintenance of each PM control device for a metal melting furnace at an existing affected source. You must perform the initial and periodic inspections according to the requirements in 40 CFR §63.10897(a)(1) through (4), below. You must record the results of each initial and periodic inspection and any maintenance action in the logbook required in 40 CFR §63.10899(b)(13).

(1) For the initial inspection of each baghouse, you must visually inspect the system ductwork and baghouse units for leaks. You must also inspect the inside of each baghouse for structural integrity and fabric filter condition. Following the initial inspections, you must inspect and maintain each baghouse according to the requirements in 40 CFR §63.10897(a)(1)(i) and (ii), below.

(i) You must conduct monthly visual inspections of the system ductwork for leaks.

(ii) You must conduct inspections of the interior of the baghouse for structural integrity and to determine the condition of the fabric filter every 6 months.

(2) [N/A - THE METAL MELTING FURNACES DO NOT EMPLOY A DRY ELECTROSTATIC PRECIPITATOR]

(3) [N/A - THE METAL MELTING FURNACES DO NOT EMPLOY A WET ELECTROSTATIC PRECIPITATOR]

(4) [N/A - THE METAL MELTING FURNACES DO NOT EMPLOY A WET SCRUBBER]

**SECTION E. Source Group Restrictions.**

(b) [N/A - THE METAL MELTING FURNACES DO NOT EMPLOY A WET SCRUBBER; ALSO, THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

(c) [N/A - THE METAL MELTING FURNACES DO NOT EMPLOY AN ELECTROSTATIC PRECIPITATOR; ALSO, THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

(d) If you own or operate an existing affected source, you may install, operate, and maintain a bag leak detection system for each negative pressure baghouse or positive pressure baghouse as an alternative to the baghouse inspection requirements in 40 CFR §63.10897(a)(1), above. If you own or operate a new affected source, you must install, operate, and maintain a bag leak detection system for each negative pressure baghouse or positive pressure baghouse. You must install, operate, and maintain each bag leak detection system according to the requirements in 40 CFR §63.10897(d)(1) through (3), below.

(1) Each bag leak detection system must meet the requirements in 40 CFR §63.10897(d)(1)(i) through (vii), below.

(i) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.

(ii) The bag leak detection system sensor must provide output of relative particulate matter loadings and the owner or operator shall continuously record the output from the bag leak detection system using a strip chart recorder, data logger, or other means.

(iii) The system must be equipped with an alarm that will sound when an increase in relative particulate matter loadings is detected over the alarm set point established in the operation and maintenance plan, and the alarm must be located such that it can be heard by the appropriate plant personnel.

(iv) The initial adjustment of the system must, at minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points. If the system is equipped with an alarm delay time feature, you also must adjust the alarm delay time.

(v) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set point, or alarm delay time. Except, once per quarter, you may adjust the sensitivity of the bag leak detection system to account for seasonable effects including temperature and humidity according to the procedures in the monitoring plan required by paragraph (d)(2) of this section.

(vi) For negative pressure baghouses, induced air baghouses, and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag leak detector sensor must be installed downstream of the baghouse and upstream of any wet scrubber.

(vii) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(2) You must prepare a site-specific monitoring plan for each bag leak detection system to be incorporated in your operation and maintenance (O&M) plan. You must operate and maintain each bag leak detection system according to the plan at all times. Each plan must address all of the items identified in 40 CFR §63.10897(d)(2)(i) through (vi), below.

(i) Installation of the bag leak detection system.

(ii) Initial and periodic adjustment of the bag leak detection system including how the alarm set-point will be established.

(iii) Operation of the bag leak detection system including quality assurance procedures.

(iv) Maintenance of the bag leak detection system including a routine maintenance schedule and spare parts inventory list.

(v) How the bag leak detection system output will be recorded and stored.

**SECTION E. Source Group Restrictions.**

(vi) Procedures for determining what corrective actions are necessary in the event of a bag leak detection alarm as required in 40 CFR §63.10897(d)(3), below.

(3) In the event that a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within one (1) hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete corrective action as soon as practicable, but no later than 10 calendar days from the date of the alarm. You must record the date and time of each valid alarm, the time you initiated corrective action, the corrective action taken, and the date on which corrective action was completed. Corrective actions may include, but are not limited to:

(i) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse department.

(v) Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions.

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

(f) [N/A - CPMS/OTHER MEASUREMENT DEVICE(S) ARE NOT EMPLOYED]

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

(h) If you choose to comply with an emissions limit in 40 CFR §63.10895(c) using emissions averaging, you must calculate and record for each calendar month the pounds of PM or total metal HAP per ton of metal melted from the group of all metal melting furnaces at your foundry. You must calculate and record the weighted average pounds per ton emissions rate for the group of all metal melting furnaces at the foundry determined from the performance test procedures in 40 CFR §63.10898(d) and (e).

[73 FR 252, Jan. 2, 2008, as amended at 85 FR 56102, Sept. 10, 2020]

IV. RECORDKEEPING REQUIREMENTS.

006 [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?

(a) As required by 40 CFR §63.10(b)(1), you must maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks or flash drives, on magnetic tape disks, or on microfiche. Any records required to be maintained by this part that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for

**SECTION E. Source Group Restrictions.**

facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.

(b) In addition to the records required by § 63.10(b)(2)(iii) and (vi) through (xiv) and (b)(3), you must keep records of the information specified in paragraphs (b)(1) through (15) of this section.

(1) You must keep records of your written materials specifications according to 40 CFR §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in 40 CFR §63.10885(a)(1) and/or for the use of general scrap in 40 CFR §63.10885(a)(2) and for mercury in 40 CFR §§63.10885(b)(1) through (3), as applicable. You must keep records documenting compliance with 40 CFR §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.

(2) [N/A - NO MOTOR VEHICLE SCRAP PROCESSED/MELTED AT FACILITY]

(3) [N/A - NO MOTOR VEHICLE SCRAP PROCESSED/MELTED AT FACILITY]

(4) [N/A - THE AFFECTED SOURCE DOES NOT CURRENTLY EMPLOY A FURFURYL ALCOHOL WARM BOX MOLD OR CORE MAKING LINE; SUBJECT TO CHANGE]

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

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

(7) You must keep a copy of the operation and maintenance plan as required by 40 CFR §63.10896(a) and records that demonstrate compliance with plan requirements.

(8) If you use emissions averaging, you must keep records of the monthly metal melting rate for each furnace at your iron and steel foundry, and records of the calculated pounds of PM or total metal HAP per ton of metal melted for the group of all metal melting furnaces required by 40 CFR §63.10897(h).

(9) If applicable, you must keep records for bag leak detection systems as follows:

(i) Records of the bag leak detection system output;

(ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and

(iii) The date and time of all bag leak detection system alarms, and for each valid alarm, the time you initiated corrective action, the corrective action taken, and the date on which corrective action was completed.

(10) You must keep records of capture system inspections and repairs as required by 40 CFR §63.10897(e).

(11) [N/A - CPMS/OTHER MEASUREMENT DEVICE(S) ARE NOT EMPLOYED]

(12) You must keep records of corrective action(s) for exceedances and excursions as required by 40 CFR §63.10897(g).

(13) You must record the results of each inspection and maintenance required by 40 CFR §63.10897(a) for PM control devices in a logbook (written or electronic format). You must keep the logbook onsite and make the logbook available to the Administrator upon request. You must keep records of the information specified in 40 CFR §63.10899(b)(13)(i) through (iii), below.

(i) The date and time of each recorded action for a fabric filter, the results of each inspection, and the results of any maintenance performed on the bag filters.

(ii) [N/A - THE METAL MELTING FURNACES DO NOT EMPLOY A WET OR DRY ELECTROSTATIC PRECIPITATOR]

**SECTION E. Source Group Restrictions.**

(iii) [N/A - THE METAL MELTING FURNACES DO NOT EMPLOY A WET SCRUBBER]

14) You must keep records of the site-specific performance evaluation test plan required under § 63.8(d)(2) for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan is revised, you shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan as required under § 63.8(d)(2)(vi).

(15) You must keep the following records for each failure to meet an emissions limitation (including operating limit), work practice standard, or operation and maintenance requirement in this subpart.

(i) Date, start time, and duration of each failure.

(ii) List of the affected sources or equipment for each failure, an estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions.

(iii) Actions taken to minimize emissions in accordance with § 63.10896(c), and any corrective actions taken to return the affected unit to its normal or usual manner of operation.

(c) Prior to March 9, 2021, you must submit semiannual compliance reports to the Administrator according to the requirements in § 63.13. Beginning on March 9, 2021, you must submit all subsequent semiannual compliance reports to the EPA via the CEDRI, which can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as confidential business information (CBI). Anything submitted using CEDRI cannot later be claimed to be CBI. You must use the appropriate electronic report template on the CEDRI website (<https://www.epa.gov/electronic-reporting-air-emissions/cedri>) for this subpart. The date report templates become available will be listed on the CEDRI website. The report must be submitted by the deadline specified in this subpart, regardless of the method in which the report is submitted. Although we do not expect persons to assert a claim of CBI, if persons wish to assert a CBI if you claim some of the information required to be submitted via CEDRI is CBI, submit a complete report, including information claimed to be CBI, to the EPA. The report must be generated using the appropriate form on the CEDRI website or an alternate electronic file consistent with the extensible markup language (XML) schema listed on the CEDRI website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described earlier in this paragraph (c). All CBI claims must be asserted at the time of submission. Furthermore, under CAA section 114(c) emissions data is not entitled to confidential treatment and requires EPA to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. The reports must include the information specified in paragraphs (c)(1) through (3) of this section and, as applicable, paragraphs (c)(4) through (9) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If there were no deviations from any emissions limitations (including operating limits, pollution prevention management practices, or operation and maintenance requirements), a statement that there were no deviations from the emissions limitations, pollution prevention management practices, or operation and maintenance requirements during the reporting period.

(5) [N/A - CPMS/OTHER MEASUREMENT DEVICE(S) ARE NOT EMPLOYED]

(6) For each affected source or equipment for which there was a deviation from an emissions limitation (including an operating limit, pollution prevention management practice, or operation and maintenance requirement) that occurs at an

**SECTION E. Source Group Restrictions.**

iron and steel foundry during the reporting period, the compliance report must contain the information specified in paragraphs (c)(6)(i) through (iii) of this section. The requirement in this paragraph (c)(6) includes periods of startup, shutdown, and malfunction.

(i) A list of the affected source or equipment and the total operating time of each emissions source during the reporting period.

(ii) For each deviation from an emissions limitation (including an operating limit, pollution prevention management practice, or operation and maintenance requirement) that occurs at an iron and steel foundry during the reporting period, report:

(A) The date, start time, duration (in hours), and cause of each deviation (characterized as either startup, shutdown, control equipment problem, process problem, other known cause, or unknown cause, as applicable) and the corrective action taken; and

(B) An estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions.

(iii) A summary of the total duration (in hours) of the deviations that occurred during the reporting period by cause (characterized as startup, shutdown, control equipment problems, process problems, other known causes, and unknown causes) and the cumulative duration of deviations during the reporting period across all causes both in hours and as a percent of the total source operating time during the reporting period.

(7) [N/A - CPMS/OTHER MEASUREMENT DEVICE(S) ARE NOT EMPLOYED]

(8) Identification of which option in § 63.10885(b) applies to you. If you comply with the mercury requirements in § 63.10885(b) by using one scrap provider, contract, or shipment subject to one compliance provision and others subject to another compliance provision different, provide an identification of which option in § 63.10885(b) applies to each scrap provider, contract, or shipment.

(9) [N/A - NO MOTOR VEHICLE SCRAP PROCESSED/MELTED AT FACILITY]

(d) You must submit written notification to the Administrator of the initial classification of your new or existing affected source as a large iron and steel facility as required in § 63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in § 63.10881(d) or (e), as applicable. [NOTE: WRITTEN NOTIFICATION OF INITIAL CLASSIFICATION OF EXISTING AFFECTED SOURCE AS A "LARGE FOUNDRY" WAS SUBMITTED TO THE DEPARTMENT & U.S. EPA VIA LETTER DATED 4/24/08]

(e) Within 60 days after the date of completing each performance test required by this subpart, you must submit the results of the performance test following the procedures specified in paragraphs (e)(1) through (3) of this section.

(1) Data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) at the time of the test. Submit the results of the performance test to the EPA via the CEDRI, which can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). The data must be submitted in a file format generated through the use of the EPA's ERT. Alternatively, you may submit an electronic file consistent with the XML schema listed on the EPA's ERT website.

(2) Data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test. The results of the performance test must be included as an attachment in the ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the ERT generated package or alternative file to the EPA via CEDRI.

(3) Confidential business information. The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as CBI. Anything submitted using CEDRI cannot later be claimed to be CBI. Although we do not expect persons to assert a claim of CBI if you claim some of the information submitted under paragraph (e)(1) or (2) of this section is CBI, you must submit a complete file, including information claimed to be CBI, to the EPA. The file must be generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the file on a compact disc, flash

**SECTION E. Source Group Restrictions.**

drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described in paragraph (e)(1) of this section. All CBI claims must be asserted at the time of submission. Furthermore, under CAA section 114(c) emissions data is not entitled to confidential treatment and requires EPA to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available.

(f) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of EPA system outage for failure to timely comply with the reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (f)(1) through (7) of this section.

(1) You must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA's CEDRI or CDX systems.

(2) The outage must have occurred within the period of time beginning 5 business days prior to the date that the submission is due.

(3) The outage may be planned or unplanned.

(4) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

(5) You must provide to the Administrator a written description identifying:

(i) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable;

(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage;

(iii) Measures taken or to be taken to minimize the delay in reporting; and

(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

(6) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

(7) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved.

(g) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of force majeure for failure to timely comply with the reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (g)(1) through (5) of this section.

(1) You may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning five business days prior to the date the submission is due. For the purposes of this section, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents you from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (e.g., hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (e.g., large scale power outage).

(2) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

(3) You must provide to the Administrator:

(i) A written description of the force majeure event;

**SECTION E. Source Group Restrictions.**

- (ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event;
- (iii) Measures taken or to be taken to minimize the delay in reporting; and
- (iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

[73 FR 252, Jan. 2, 2008, as amended at 85 FR 56102, Sept. 10, 2020]

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.**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10885]****Subpart ZZZZ - 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?**

(a) Metallic scrap management program. For each segregated metallic scrap storage area, bin or pile, you must comply with the materials acquisition requirements in 40 CFR §63.10885(a)(1) or (2), below. You must keep a copy of the material specifications on-site and readily available to all personnel with material acquisition duties, and provide a copy to each of your scrap providers. You may have certain scrap subject to 40 CFR §63.10885(a)(1), below, and other scrap subject to 40 CFR §63.10885(a)(2), below, at your facility provided the metallic scrap remains segregated until charge make-up.

(1) Restricted metallic scrap. You must prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated plastics, or free liquids. For the purpose of 40 CFR Part 63, Subpart ZZZZ, "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 §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. Any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed and/or cleaned to the extent practicable such that the materials do not include lead components, mercury switches, chlorinated plastics, or free organic liquids can be included in this certification.

(2) General iron and steel scrap. You must prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel foundry. The materials specifications must include at a minimum the information specified in 40 CFR §63.10885(a)(2)(i) or (ii), below.

(i) Except as provided in 40 CFR §63.10885(a)(2)(ii), below, 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.

(ii) [N/A - THE FACILITY DOES NOT CURRENTLY OPERATE A CUPOLA METAL MELTING FURNACE]

(b) Mercury requirements. For scrap containing motor vehicle scrap, you must procure the scrap pursuant to one of the compliance options in 40 CFR §63.10885(b)(1), (2), or (3), below, for each scrap provider, contract, or shipment. For scrap that does not contain motor vehicle scrap, you must procure the scrap pursuant to the requirements in 40 CFR §63.10885(b)(4), below, for each scrap provider, contract, or shipment. You may have one scrap provider, contract, or shipment subject to one compliance provision and others subject to another compliance provision.

(1) [N/A - NO MOTOR VEHICLE SCRAP PROCESSED/MELTED AT FACILITY]

(2) [N/A - NO MOTOR VEHICLE SCRAP PROCESSED/MELTED AT FACILITY]

**SECTION E. Source Group Restrictions.**

(3) [N/A - NO MOTOR VEHICLE SCRAP PROCESSED/MELTED AT FACILITY]

(4) Scrap that does not contain motor vehicle scrap. For scrap not subject to the requirements in 40 CFR §63.10885(b)(1) through (3), above, you must certify in your notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.

[73 FR 252, Jan. 2, 2008, as amended at 85 FR 56101, Sept. 10, 2020]

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10896]

Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources
What are my operation and maintenance requirements?

(a) You must prepare and operate at all times according to a written operation and maintenance (O&M) plan for each control device for an emissions source subject to a PM, metal HAP, or opacity emissions limit in 40 CFR §63.10895. You must maintain a copy of the O&M plan at the facility and make it available for review upon request. At a minimum, each plan must contain the following information:

(1) General facility and contact information;

(2) Positions responsible for inspecting, maintaining, and repairing emissions control devices which are used to comply with 40 CFR Part 63, Subpart ZZZZ;

(3) Description of items, equipment, and conditions that will be inspected, including an inspection schedule for the items, equipment, and conditions. For baghouses that are equipped with bag leak detection systems, the O&M plan must include the site-specific monitoring plan required in 40 CFR §63.10897(d)(2).

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

(5) [N/A - THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

(b) You may use any other O&M, preventative maintenance, or similar plan which addresses the requirements in 40 CFR §63.10896(a)(1) through (5), above, to demonstrate compliance with the requirements for an O&M plan.

(c) At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

[73 FR 252, Jan. 2, 2008, as amended at 85 FR 56101, Sept. 10, 2020]

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In the event that 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources (MACT Subpart ZZZZ) is revised, the permittee shall comply with the revised version of MACT Subpart ZZZZ, and shall not be required to comply with any provisions in this operating permit designated as having MACT Subpart ZZZZ as their authority, to the extent that such operating permit provisions would be inconsistent with the applicable provisions of the revised MACT Subpart ZZZZ.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1]

Subpart A--General Provisions

Applicability.

The Group GRP04 sources are subject to 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§63.10880 through 63.10900, including all applicable portions of 40 CFR Part 63, Subpart A - General Provisions. The

**SECTION E. Source Group Restrictions.**

permittee shall comply with 40 CFR §63.13(a), which requires submission of copies of all requests, reports, applications, submittals, and other communications to both the U.S. Environmental Protection Agency (U.S. EPA) and the Department. The U.S. EPA copies shall be forwarded to:

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

The Department copies shall be forwarded to:

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

011 [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?**

(a) You are subject to 40 CFR Part 63, Subpart ZZZZZ, if you own or operate an iron and steel foundry that is an area source of hazardous air pollutant (HAP) emissions.

(b) 40 CFR Part 63, Subpart ZZZZZ, applies to each new or existing affected source. The affected source is each iron and steel foundry.

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

(2) [N/A - THE AFFECTED SOURCE IS DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1), ABOVE; SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

(c) [N/A - THE AFFECTED SOURCE IS RESTRICTED TO AREA SOURCE STATUS FOR HAPs PURSUANT TO SECTION C, CONDITION #006, OF THIS OPERATING PERMIT (O.P. NO. 21-05055)]

(d) [N/A - THE AFFECTED SOURCE IS NOT A RESEARCH & DEVELOPMENT FACILITY]

(e) You are exempt from the obligation to obtain a permit under 40 CFR Part 70 or 40 CFR Part 71, provided you are not otherwise required by law to obtain a permit under 40 CFR §70.3(a) or 40 CFR §71.3(a). Notwithstanding the previous sentence, you must continue to comply with the provisions of 40 CFR Part 63, Subpart ZZZZZ. [NOTE: THIS MEANS THAT THE FACILITY IS NOT REQUIRED TO POSSESS A TITLE V OPERATING PERMIT SOLELY DUE TO BEING SUBJECT TO 40 CFR PART 63, SUBPART ZZZZZ]

(f) If you own or operate an existing affected source, you must determine the initial applicability of the requirements of 40 CFR Part 63, Subpart ZZZZZ, to a small foundry or a large foundry based on your facility's metal melt production for calendar year 2008. If the metal melt production for calendar year 2008 is 20,000 tons or less, your area source is a small foundry. If your metal melt production for calendar year 2008 is greater than 20,000 tons, your area source is a large foundry. You must submit a written notification to the Administrator that identifies your area source as a small foundry or a large foundry no later than January 2, 2009. [NOTE: WRITTEN NOTIFICATION OF INITIAL CLASSIFICATION OF THE EXISTING AFFECTED SOURCE AS A LARGE FOUNDRY SUBMITTED TO THE DEPARTMENT & U.S. EPA VIA A LETTER DATED 4/24/08]

(g) [N/A - THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1), ABOVE; SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

**SECTION E. Source Group Restrictions.****# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10881]****Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources****What are my compliance dates?**

(a) If you own or operate an existing affected source, you must achieve compliance with the applicable provisions of 40 CFR Part 63, Subpart ZZZZ, by the dates in 40 CFR §63.10881(a)(1) through (3), below.

(1) Not later than January 2, 2009 for the pollution prevention management practices for metallic scrap in 40 CFR §63.10885(a) and binder formulations in 40 CFR §63.10886.

(2) Not later than January 4, 2010 for the pollution prevention management practices for mercury in 40 CFR §63.10885(b).

(3) Except as provided in 40 CFR §63.10881(d), below, not later than 2 years after the date of your large foundry's notification of the initial determination required in 40 CFR §63.10880(f) for the standards and management practices in 40 CFR §63.10895.

(b) [N/A - THE AFFECTED SOURCE WAS DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1) ON OR BEFORE 1/02/08]

(c) [N/A - THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

(d) Following the initial determination for an existing affected source required in 40 CFR §63.10880(f),

(1) [N/A - THE AFFECTED SOURCE IS CLASSIFIED AS A LARGE FOUNDRY PURSUANT TO A LETTER TO THE DEPARTMENT & U.S. EPA DATED 4/24/08]

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

(e) [N/A - THE AFFECTED SOURCE IS CURRENTLY DEFINED AS EXISTING PURSUANT TO 40 CFR §63.10880(b)(1); SUBJECT TO CHANGE SHOULD RECONSTRUCTION OCCUR]

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10890]**Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources****What are my management practices and compliance requirements?**

[N/A - THIS OPERATING PERMIT CONDITION ONLY APPLIES TO AFFECTED SOURCES CLASSIFIED AS A SMALL FOUNDRY AS THAT TERM IS DEFINED AT 40 CFR §63.10906; THE AFFECTED SOURCE IS CURRENTLY CLASSIFIED AS A LARGE FOUNDRY PURSUANT TO A LETTER TO THE DEPARTMENT & U.S. EPA DATED 4/24/08; HOWEVER, THIS IS SUBJECT TO CHANGE SHOULD THE AFFECTED SOURCE BE RECLASSIFIED AS A SMALL FOUNDRY]

(a) You must comply with the pollution prevention management practices for metallic scrap and mercury switches in 40 CFR §63.10885 and binder formulations in 40 CFR §63.10886.

(b) [N/A - THE INITIAL NOTIFICATION OF APPLICABILITY WAS SENT TO THE DEPARTMENT & U.S. EPA VIA A LETTER DATED 4/24/08]

(c) You must submit a notification of compliance status according to 40 CFR §63.9(h)(2)(i). You must send the notification of compliance status before the close of business on the 30th day after the applicable compliance date specified in 40 CFR §63.10881. The notification must include the following compliance certifications, as applicable:

**SECTION E. Source Group Restrictions.**

- (1) "This facility has prepared, and will operate by, written material specifications for metallic scrap according to 40 CFR §63.10885(a)(1)" and/or "This facility has prepared, and will operate by, written material specifications for general iron and steel scrap according to 40 CFR §63.10885(a)(2)."
- (2) "This facility has prepared, and will operate by, written material specifications for the removal of mercury switches and a site-specific plan implementing the material specifications according to 40 CFR §63.10885(b)(1) and/or "This facility participates in and purchases motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the Administrator according to 40 CFR §63.10885(b)(2) and has prepared a plan for participation in the EPA-approved program according to 40 CFR §63.10885(b)(2)(iv)" and/or "The only materials from motor vehicles in the scrap charged to a metal melting furnace at this facility are materials recovered for their specialty alloy content in accordance with 40 CFR §63.10885(b)(3) which are not reasonably expected to contain mercury switches" and/or "This facility complies with the requirements for scrap that does not contain motor vehicle scrap in accordance with 40 CFR §63.10885(b)(4)."
- (3) [N/A - THE AFFECTED SOURCE DOES NOT CURRENTLY EMPLOY A FURFURYL ALCOHOL WARM BOX MOLD OR CORE MAKING LINE; SUBJECT TO CHANGE] "This facility complies with the no methanol requirement for the catalyst portion of each binder chemical formulation for a furfuryl alcohol warm box mold or core making line according to 40 CFR §63.10886."
- (d) As required by 40 CFR §63.10(b)(1), you must maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off-site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. Any records required to be maintained by this part that are submitted electronically via the EPA's Compliance and Emissions Data Reporting Interface (CEDRI) may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.
- (e) You must maintain records of the information specified in 40 CFR §63.10890(e)(1) through (7), below, according to the requirements in 40 CFR §63.10(b)(1).
- (1) Records supporting your initial notification of applicability and your notification of compliance status according to 40 CFR §63.10(b)(2)(xiv).
- (2) Records of your written materials specifications according to 40 CFR §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in 40 CFR §63.10885(a)(1) and/or for the use of general scrap in 40 CFR §63.10885(a)(2) and for mercury in 40 CFR §§63.10885(b)(1) through (3), as applicable. You must keep records documenting compliance with 40 CFR §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.
- (3) [N/A - NO MOTOR VEHICLE SCRAP PROCESSED/MELTED AT FACILITY]
- (4) [N/A - NO MOTOR VEHICLE SCRAP PROCESSED/MELTED AT FACILITY]
- (5) [N/A - THE AFFECTED SOURCE DOES NOT CURRENTLY EMPLOY A FURFURYL ALCOHOL WARM BOX MOLD OR CORE MAKING LINE; SUBJECT TO CHANGE] Records to document use of binder chemical formulation that does not contain methanol as a specific ingredient of the catalyst formulation for each furfuryl alcohol warm box mold or core making line as required by 40 CFR §63.10886. These records must be the Material Safety Data Sheet (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet.
- (6) Records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records must be copies of purchasing records, Material Safety Data Sheets, or other documentation that provides information on the binder or coating materials used.
- (7) Records of metal melt production for each calendar year.
- (f) You must submit semiannual compliance reports to the Administrator according to the requirements in 40 CFR §63.10899(c), (f), and (g), except that § 63.10899(c)(5) and (7) do not apply.

**SECTION E. Source Group Restrictions.**

(g) You must submit a written notification to the Administrator of the initial classification of your facility as a small foundry as required in 40 CFR §§63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in 40 CFR §63.10881(d)(1) or (e), as applicable.

(h) Following the initial determination for an existing affected source as a small foundry, if the annual metal melt production exceeds 20,000 tons during the preceding year, you must comply with the requirements for large foundries by the applicable dates in 40 CFR §63.10881(d)(1)(i) or (d)(1)(ii). Following the initial determination for a new affected source as a small foundry, if you increase the annual metal melt capacity to exceed 10,000 tons, you must comply with the requirements for a large foundry by the applicable dates in 40 CFR §63.10881(e)(1).

(i) At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

(j) You must comply with the following requirements of the general provisions in subpart A of this part: §§ 63.1 through 63.5; § 63.6(a), (b), and (c); § 63.9; § 63.10(a), (b)(1), (b)(2)(xiv), (b)(3), (d)(1) and (4), and (f); and §§ 63.13 through 63.16. Requirements of the general provisions not cited in the preceding sentence do not apply to the owner or operator of a new or existing affected source that is classified as a small foundry.

[73 FR 252, Jan. 2, 2008, as amended at 85 FR 56101, Sept. 10, 2020]

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10900]

Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources
What parts of the General Provisions apply to my large foundry?

(a) If you own or operate a new or existing affected source that is classified as a large foundry, you must comply with the requirements of the General Provisions (40 CFR Part 63, Subpart A) according to Table 3 of 40 CFR Part 63, Subpart ZZZZ.

(b) If you own or operate a new or existing affected source that is classified as a large foundry, your notification of compliance status required by 40 CFR §63.9(h) must include each applicable certification of compliance, signed by a responsible official, in Table 4 of 40 CFR Part 63, Subpart ZZZZ. [NOTE: THE NOTIFICATION OF COMPLIANCE STATUS WAS SUBMITTED TO THE DEPARTMENT & U.S. EPA VIA LETTER DATED 7/25/11 AND RECEIVED BY THE DEPARTMENT ON 7/28/11]

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10906]

Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources
What definitions apply to this subpart?

Terms used in 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources (MACT Subpart ZZZZ), as well as Section E, Group GRP04, are defined in the Clean Air Act; in 40 CFR §63.2 (General Provisions); and in 40 CFR §63.10906.

**SECTION E. Source Group Restrictions.**

Group Name: GRP05

Group Description: SOURCES W/ PM CONTROL DEVICE(S)

Sources included in this group

ID	Name
107B	V3 PROCESS SAND RECLAIM OPERATIONS
110	CORE ROOM PERMIX HOPPER/SAND MIXER/ SAND SILO
111	ARC-AIR / WELDING BOOTHS
112	SWNDLL-DRSSLR ELEC ARC #3
113	SWNDLL DRSSLR ELEC ARC #4
115A	HILL TORCH CUTTING
122B	PIG POT MOLDING / NO BAKE SAND PROCESS
136	SCRAPYARD TORCH CUTTING BOOTH

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

(a) The permittee shall maintain detailed records of all maintenance performed on each Group GRP05 particulate matter (PM) control device.

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

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.**

The permittee shall operate each PM control device at all times that its respective Group GRP05 source is operating.

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

The permittee shall operate and maintain each Group GRP05 PM control device in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: GRP06

Group Description: Sources Subject to 25 Pa. Code §123.13(c)(1)(i) PM Emission Standard (Except Source ID 116A)

Sources included in this group

ID	Name
103A	HEAT TREAT FURNACE 1
103B	HEAT TREAT FURNACE 2
103C	HEAT TREAT FURNACE 3
107B	V3 PROCESS SAND RECLAIM OPERATIONS
111	ARC-AIR / WELDING BOOTHS
112	SWNDLL-DRSSLR ELEC ARC #3
113	SWNDLL DRSSLR ELEC ARC #4
115A	HILL TORCH CUTTING
122B	PIG POT MOLDING / NO BAKE SAND PROCESS
136	SCRAPYARD TORCH CUTTING BOOTH

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

001 [25 Pa. Code §123.13]

Processes

Particulate matter emissions from each Group GRP06 exhaust stack shall not exceed 0.04 grain per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

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.

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

**SECTION E. Source Group Restrictions.**

Group Name: GRP07

Group Description: 25 Pa. Code, Section 129.52d Requirements

Sources included in this group

ID	Name
137	CASTING PAINTING

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.

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

§ 129.52d. Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.

(a) Applicability.

(1) This section applies to the owner and operator of a miscellaneous metal part surface coating process or miscellaneous plastic part surface coating process, or both, if the total actual VOC emissions from all miscellaneous metal part coating units and miscellaneous plastic part coating units, including related cleaning activities, at the facility are equal to or greater than 2.7 tons per 12-month rolling period, before consideration of controls.

(2) This section applies, as specified, to the owner and operator of a miscellaneous metal part surface coating process or miscellaneous plastic part surface coating process, or both, if the total actual VOC emissions from all miscellaneous metal part coating units and miscellaneous plastic part coating units, including related cleaning activities, at the facility are below 2.7 tons per 12-month rolling period, before consideration of controls.

(3) Compliance with the VOC emission limits and other requirements of this section assures compliance with the VOC emission limits and other requirements of § 129.52 (relating to surface coating processes) for the miscellaneous metal parts and products surface coating processes as specified in § 129.52, Table I, Category 10.

**SECTION E. Source Group Restrictions.**

(4) If an owner or operator elects to comply with § 129.52e (relating to control of VOC emissions from automobile and light-duty truck assembly surface coating operations and heavier vehicle coating operations) under § 129.52e(a)(2) or (3), then § 129.52e instead of this section applies to the separate coating line at the facility, or to the coating of a body or body part for a new heavier vehicle at the facility, or both, for which the election is made.

(5) This section does not apply to an owner or operator in the use or application of the following:

(i) Aerosol coatings that meet the requirements of 40 CFR Part 59, Subpart E (relating to National volatile organic compound emission standards for aerosol coatings).

(ii) Aerospace coatings.

(iii) Architectural coatings.

(iv) Automobile refinishing coatings.

(v) Auto and light-duty truck assembly coatings.

(vi) Can, coil or magnet wire coatings.

(vii) Coating applied to a test panel or coupon, or both, in research and development, quality control or performance testing activities, if records are maintained as required under subsections (e) and (f).

(viii) Fiberglass boat manufacturing materials.

(ix) Flat wood paneling coatings.

(x) Large appliance coatings.

(xi) Metal furniture coatings.

(xii) Miscellaneous industrial adhesives.

(xiii) Paper, film and foil coatings.

(xiv) Shipbuilding and repair coatings.

(xv) Wood furniture coatings.

(b) Definitions. [INCORPORATED BY REFERENCE]

(c) Existing RACT permit. The requirements of this section supersede the requirements of a RACT permit issued under §§ 129.91—129.95 (relating to stationary sources of NO_x and VOCs) to the owner or operator of a source subject to subsection (a) prior to January 1, 2017, to control, reduce or minimize VOCs from a miscellaneous metal part or miscellaneous plastic part surface coating process, except to the extent the RACT permit contains more stringent requirements.

(d) Emission limitations. Beginning January 1, 2017, a person subject to subsection (a)(1) may not cause or permit the emission into the outdoor atmosphere of VOCs from a miscellaneous metal part coating unit or miscellaneous plastic part coating unit, or both, unless emissions of VOCs are controlled in accordance with paragraph (1), (2) or (3).

(1) Compliant materials option. The VOC content of each miscellaneous metal part coating or each miscellaneous plastic part coating, as applied, excluding water and exempt compounds, is equal to or less than the VOC content limit for the applicable coating category specified in the applicable table of VOC content limits in Tables I—V.

Table I. VOC Content Limits for Metal Parts and Products Surface Coatings Weight of VOC per Volume of Coating, Less Water and Exempt Compounds, as Applied. [FULL TABLE I INCORPORATED BY REFERENCE - SEE EXCERPTS BELOW]

**SECTION E. Source Group Restrictions.**

FOR CONVENIENCE]

Coating Category	Air Dried		Baked	
	kg VOC/ l coating	lb VOC/ gal coating	kg VOC/ l coating	lb VOC/ gal coating
General One-component	0.34	2.8	0.28	2.3
General Multicomponent	0.34	2.8	0.28	2.3
Extreme Performance	0.42	3.5	0.36	3.0
Touch-up and Repair	0.42	3.5	0.36	3.0

(2)-(3) [NA – NO VOC CONTROL DEVICE]

(4) Least restrictive VOC limit. If more than one VOC content limit or VOC emission rate limit applies to a specific coating, then the least restrictive VOC content limit or VOC emission rate limit applies.

(5) Coatings not listed in Table I, II, VI or VII. For a miscellaneous metal part or miscellaneous plastic part coating that does not meet the coating categories listed in Table I, II, VI or VII, the VOC content limit or VOC emission rate limit shall be determined by classifying the coating as a general one component coating or general multicomponent coating. The corresponding general one component coating or general multicomponent coating limit applies.

(6) Coatings not listed in Table IV or IX. [NA – FACILITY DOES NOT USE PLEASURE CRAFT COATINGS]

(e) Compliance and monitoring requirements.

(1) All owners and operators. Regardless of the facility's VOC emissions, the owner or operator of a miscellaneous metal part surface coating process or miscellaneous plastic part surface coating process, or both, subject to subsection (a)(1) or (2), shall comply with this section as specified throughout this section. For an owner or operator subject only to subsection (a)(2), the compliance requirements are the recordkeeping requirements in subsection (f)(2).

(2) [NA – NO VOC CONTROL DEVICE]

(f) Recordkeeping and reporting requirements.

(1) The owner or operator of a miscellaneous metal part coating unit or miscellaneous plastic part coating unit, or both, subject to subsection (a)(1) shall maintain monthly records sufficient to demonstrate compliance with this section. The records must include the following information:

(i) The following parameters for each coating, thinner, component and cleaning solvent as supplied:

(A) Name and identification number of the coating, thinner, other component or cleaning solvent.

(B) Volume used.

(C) Mix ratio.

(D) Density or specific gravity.

(E) Weight percent of total volatiles, water, solids and exempt solvents.

(F) Volume percent of total volatiles, water and exempt solvents for the applicable table of limits in Tables I—V.

(G) Volume percent of solids for the applicable table of limits in Tables VI—IX.

(ii) The VOC content of each coating, thinner, other component and cleaning solvent as supplied.

(iii) The VOC content of each as applied coating or cleaning solvent.

**SECTION E. Source Group Restrictions.**

- (iv) The calculations performed for each applicable requirement under subsections (d) and (e).
- (v) The information required in a plan approval issued under subsection (e)(2).
- (2) An owner or operator subject to subsection (a)(2), or otherwise claiming an exemption or exception in this section, shall maintain records sufficient to verify the applicability of subsection (a)(2), the exemption or exception. Records maintained for compliance demonstrations may include purchase, use, production and other records.
- (3) The records shall be maintained onsite for 2 years, unless a longer period is required by an order, plan approval or operating permit issued under Chapter 127 (relating to construction, modification, reactivation and operation of sources).
- (4) The records shall be submitted to the Department in an acceptable format upon receipt of a written request from the Department.
- (g) Coating application methods. A person subject to subsection (a)(1) may not cause or permit the emission into the outdoor atmosphere of VOCs from a miscellaneous metal part coating unit or miscellaneous plastic part coating unit, or both, unless the coatings are applied using one or more of the following coating application methods:
 - (1) Electrostatic coating.
 - (2) Flow coating.
 - (3) Dip coating, including electrodeposition.
 - (4) Roll coating.
 - (5) High volume-low pressure (HVLP) spray coating.
 - (6) Airless spray coating.
 - (7) Air-assisted airless spray coating.
 - (8) Other coating application method if approved in writing by the Department prior to use.
- (i) The coating application method must be capable of achieving a transfer efficiency equivalent to or better than that achieved by HVLP spray coating.
- (ii) The owner or operator shall submit the request for approval to the Department in writing.
- (h) Exempt coatings and exempt coating unit operations.
 - (1) The requirements of subsections (d) and (g) do not apply to the application of the following coatings to a metal part:
 - (i) Stencil coating.
 - (ii) Safety-indicating coating.
 - (iii) Solid-film lubricant.
 - (iv) Electric-insulating and thermal-conducting coating.
 - (v) Magnetic data storage disk coating.
 - (vi) Plastic extruded onto metal parts to form a coating.
 - (vii) Powder coating.

**SECTION E. Source Group Restrictions.**

(2) The requirements of subsection (d) do not apply to the application of the following coatings to a plastic part:

- (i) Touch-up and repair coating.
- (ii) Stencil coating applied on a clear or transparent substrate.
- (iii) Clear or translucent coating.
- (iv) Coating applied at a paint manufacturing facility while conducting performance tests on coating.
- (v) Reflective coating applied to highway cones.
- (vi) Mask coating, if the coating is less than 0.5 millimeter thick (dried) and the area coated is less than 25 square inches.
- (vii) EMI/RFI shielding coating.
- (viii) Heparin-benzalkonium chloride (HBAC)-con-taining coating applied to a medical device, provided that the total usage of HBAC-containing coatings does not exceed 100 gallons in 1 calendar year at the facility.
- (ix) Powder coating.
- (x) An individual coating category used in an amount less than 50 gallons in 1 calendar year provided that the total usage of all of the coatings, combined, does not exceed 200 gallons per year at the facility. This exception applies only if substitute compliant coatings are not available.

(3) The requirements of subsection (d) do not apply to the application of the following coatings to automotive-transportation and business machine parts:

- (i) Texture coat.
- (ii) Vacuum-metalizing coating.
- (iii) Gloss reducer.
- (iv) Texture topcoat.
- (v) Adhesion primer.
- (vi) Electrostatic prep coat.
- (vii) Resist coating.
- (viii) Stencil coating.
- (ix) Powder coating.

(4) The requirements of subsection (g) do not apply to the following activities:

- (i) Application of a touch-up coating, repair coating or textured finish to a metal part.
- (ii) Application of a powder coating to the following:
 - (A) Plastic part.
 - (B) Automotive-transportation plastic part.
 - (C) Business machine plastic part.

**SECTION E. Source Group Restrictions.**

- (iii) Airbrush application of coating to a metal part or plastic part using no more than 5 gallons of coating per year.
- (iv) Use of an add-on air pollution control device to comply with subsection (d).
- (v) Application of extreme high-gloss coating in a pleasure craft surface coating operation.
- (i) Work practice requirements for coating-related activities. The owner or operator of a miscellaneous metal part coating unit or miscellaneous plastic part coating unit, or both, subject to subsection (a)(1) shall comply with the following work practices for coating-related activities:
 - (1) Store all VOC-containing coatings, thinners or coating-related waste materials in closed containers.
 - (2) Ensure that mixing and storage containers used for VOC-containing coatings, thinners or coating-related waste materials are kept closed at all times, except when depositing or removing these coatings, thinners or waste materials.
 - (3) Minimize spills of VOC-containing coatings, thinners or coating-related waste materials and clean up spills immediately.
 - (4) Convey VOC-containing coatings, thinners or coating-related waste materials from one location to another in closed containers or pipes.
- (j) Work practice requirements for cleaning materials. The owner or operator of a miscellaneous metal part coating unit or miscellaneous plastic part coating unit subject to subsection (a)(1) shall comply with the following work practices for cleaning materials:
 - (1) Store all VOC-containing cleaning materials and used shop towels in closed containers.
 - (2) Ensure that mixing vessels and storage containers used for VOC-containing cleaning materials are kept closed at all times except when depositing or removing these materials.
 - (3) Minimize spills of VOC-containing cleaning materials and clean up spills immediately.
 - (4) Convey VOC-containing cleaning materials from one location to another in closed containers or pipes.
 - (5) Minimize VOC emissions from cleaning of application, storage, mixing or conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.
- (k) Measurements and calculations. To determine the properties of a coating or component used in a miscellaneous metal parts surface coating process or miscellaneous plastic parts surface coating process, measurements and calculations shall be performed according to one or more of the following:
 - (1) EPA Reference Method 24, Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings, found at 40 CFR Part 60, Subpart D, Appendix A, including updates and revisions.
 - (2) Manufacturer's formulation data.
 - (3) Sampling and testing done in accordance with the procedures and test methods specified in Chapter 139.
 - (4) Other test method demonstrated to provide results that are acceptable for purposes of determining compliance with this section if prior approval is obtained in writing from the Department.
 - (5) [NA – NO VOC CONTROL DEVICE]
 - (6) EPA calculations information in the following:
 - (i) A Guideline for Surface Coating Calculations, EPA-340/1-86-016, including updates and revisions.

**SECTION E. Source Group Restrictions.**

(ii) Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink, and Other Coatings, EPA-450/3-84-019, including updates and revisions.



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.**

This operating permit includes sources and applicable conditions covered in the previous operating permit and supersedes that permit.

NOTE: The capacities/throughputs listed in Section A are for informational use only and should not be used as enforceable limitations.

#003

Source ID 106 (V3 Process Mold Washing) consists of the following equipment:

- * One (1) vacuum mold wash process rated at 20 lbs solvent/hr (Source ID 120M)

#005

Source ID 107B (V3 Process Sand Reclaim Operations) consists of the following equipment:

- * V-3 shakeout & V-3 sand storage controlled by a Wheelabrator-Frye baghouse (Source ID C20)

#006

Source ID 108 (Machining and Grinding Operations) consist of the following equipment:

- Various uncontrolled machining and grinding sources in the Frog and Old Machine Shop as per the Frog, Switch and Mfg. Co. drawing titled: Machine Shop Plan, dated 7/7/18 or subsequent revisions.

#007

Source ID 110 (Core Room Permex Hopper/Sand Mixer/Sand Silo) consists of the following equipment:

- Core Room Permex Hopper/Sand Mixer and Core Room Sand Silo controlled by an indoor vented, 2,000 CFM Donaldson Torit dust collector, Source ID C151A. The installation of the Donaldson Torit fabric collector was addressed under RFD # 4194.

#008

Source ID 111 (Arc-Air / Welding Booths) consists of the following:

The primary Arc-Air/Welding booth under Source ID 128, controlled by an indoor vented, 10,000 ACFM-rated Dust-Hog cartridge collector (Source ID C128) – also equipped with a United Air Specialist Equipment/Spec Tag affixed to the outside of the unit. The installation of this collector was addressed under RFD #6240.

The Arc-Air / Welding Booth #1 (Source ID 129), controlled by an indoor vented Torit collector, Source ID C129.

The Arc-Air / Welding Booth # 2 (Source ID 130), controlled by an indoor vented United Air Specialist dust collector, Source ID C130.

Welding Booth #4 (Source ID 142E), controlled by an outdoor vented Torit Baghouse, Source ID C108A.

#009

Source ID 114 (Degreasing Operations) consists of the following equipment:

- * One (1) immersion cold cleaning machine
- * One (1) remote reservoir cold cleaning machine

#010

Source ID 116A (Miscellaneous Natural Gas-fired Processes) consists of the following equipment:

- * Ladle Pre-heater: 1 @ 2.5 mmBTU/hr
- * Hot Water Heaters: 6 @ 250,000 BTU/hr each
- * Space Heaters: 10 @ 250,000 BTU/hr each; 12 @ 200,000 BTU/hr each; 8 @ 150,000 BTU/hr each
- * Hot Water Boiler: 1 @ 330,000 BTU/hr (addressed by RFD*Online RFD #4389 (exemption approved online 5/19/14 & via letter dated 5/20/14))

**SECTION H. Miscellaneous.**

#012

- The Pig Pot Molding / No Bake Sand Process (Source ID 122B) consists of the following equipment and control:

- Olivine (Green) Sand Storage Silo (Source ID 141) – Controlled by an outdoor vented Buell/Envirotech Baghouse #1 (Source ID C24).
- Blow Tank - Uncontrolled
- White sand silo (Source ID 140) – Controlled by an outdoor vented Buell/Envirotech Baghouse #1 (Source ID C24). The installation of the Buell baghouse was addressed under RFD # 4198.
- Syntron Vibrating Feeder - Controlled by an indoor vented, 5,500 CFM Torit Downflo dust collector (Source ID C25B). The installation of the Torit collector was addressed under RFD # 7818.
- 2- Surge Hoppers - Uncontrolled
- V-Belt Conveyor - Uncontrolled
- Conveyor Belt - Uncontrolled
- Inclined Conveyor Belt - Uncontrolled
- Mixing Screw (auger) - Uncontrolled
- No-Bake Sand Pig Pots - Uncontrolled

The following serves as a description of some of the Source ID's:

Source ID 103E was previously the subject of Plan Approval No. 21-05011A.

Source ID 106 was previously the subject of Operating Permit Nos. 21-307-005A, 21-307-016, and 21-02011.

Source ID 112 was previously the subject of Operating Permit Nos. 21-307-002 and 21-02011 and Plan Approval No. 21-05011B.

Source ID 113 was previously the subject of Operating Permit Nos. 21-307-002 and 21-02011 and Plan Approval No. 21-05011B.

Source ID 134 was previously the subject of Operating Permit No. 21-02011.

Source ID 137 was previously the subject of Operating Permit No. 21-02011.



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