



**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM**

**STATE ONLY NATURAL MINOR OPERATING PERMIT**

Issue Date: December 3, 2021

Effective Date: December 3, 2021

Expiration Date: December 2, 2026

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: 12-00008**

Natural Minor

Federal Tax Id - Plant Code: 80-0439981

**Owner Information**

Name: METALDYNE SINTERED RIDGWAY LLC

Mailing Address: 1 AIRPORT RD  
EMPORIUM, PA 15834-2001

**Plant Information**

Plant: METALDYNE SINTERED RIDGWAY LLC

Location: 12 Cameron County 12801 Emporium Borough  
SIC Code: 3399 Manufacturing - Primary Metal Products, Nec

**Responsible Official**

Name: JEFF LECHIEN

Title: PLANT MGR

Phone: (814) 486 - 3314

Email: Jeff.Lechien@aam.com

**Permit Contact Person**

Name: HANK CAPPIELLO

Title: EHS MANAGER

Phone: (814) 776 - 5866

Email: Hank.Cappiello@aam.com

[Signature] \_\_\_\_\_

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



## 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.
- #016 Reactivation
- #015 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.
- #024 Reporting
- #023 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)**

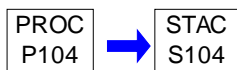
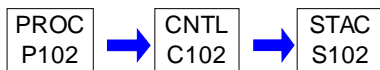
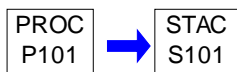
- F-I: Restrictions
- F-II: Testing Requirements
- F-III: Monitoring Requirements
- F-IV: Recordkeeping Requirements
- F-V: Reporting Requirements
- F-VI: Work Practice Standards
- F-VII: Additional Requirements

### **Section G. Emission Restriction Summary**

### **Section H. Miscellaneous**

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
P101	CONVENTIONAL LINE FURNACES		
P102	INDUCTION HARDENER, QUENCH, AND DRAW FURNACE		
P103	FORGING LINE FURNACES		
P104	FORGING LINE 5 FURNACES		
P105	TWO FURNACES WITH ENDO GAS GENERATORS		
P107	ONE METHANOL TANK		
P201	FINISHING LINES 4, 10A, 11, 12 AND SHOT BLASTING OPERATION		
P202	FINISHING LINES 5 THROUGH 10		
P203	TWO AQUEOUS PARTS WASHERS		
P205	FOUR ABBOTT FURNACES		
P206	NEW FORGING LINE AND PRESS		
P207	SAFETY-KLEEN PARTS WASHER		
P208	TWO CONVEYOR DIP TANKS		
C102	PSG-32-3 TWO STAGE ESP		
C201	CARTRIDGE COLLECTOR (DC015)		
C202	CARTRIDGE COLLECTOR (DC017)		
S101	SINTERING FURNACES STACKS		
S102	ESP STACK		
S103	FORGING LINE FURNACES STACKS		
S104	FORGING LINE 5 FURNACES STACK		
S105	TWO ENDO GAS GENERATORS STACKS		
S201	CARTRIDGE COLLECTOR STACK		
S202	CARTRIDGE COLLECTOR STACK		
S205	PF-118 FURNACE STACK		
Z001	FUGITIVE EMISSIONS		

**PERMIT MAPS**

**PERMIT MAPS**

PROC  
P105 → STAC  
S105

PROC  
P107 → STAC  
Z001

PROC  
P201 → CNTL  
C201 → STAC  
S201

PROC  
P202 → CNTL  
C202 → STAC  
S202

PROC  
P203 → STAC  
Z001

PROC  
P205 → STAC  
S205

PROC  
P206 → CNTL  
C202 → STAC  
S202

PROC  
P207 → STAC  
Z001

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

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

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

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

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

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

(1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

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

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

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

**SECTION B. General State Only Requirements**

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

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

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

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

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

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

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

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

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

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

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

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

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



**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> at the facility during the term of the permit.

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

(4) Six-tenths of a ton of PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

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

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

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

**SECTION B. General State Only Requirements**

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
  - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
  - (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
  - (4) Space heaters which heat by direct heat transfer.
  - (5) Laboratory equipment used exclusively for chemical or physical analysis.
  - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
  - (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
  - (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

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

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

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

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

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

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

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

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

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

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

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

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

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

No person may permit the emission into the outdoor atmosphere of fugitive air contaminants from a source other than the following:

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

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

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

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

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

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

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

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

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations;
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- (3) The emission results from sources specified in 25 Pa. Code Section 123.1(a)(1)-(9).

**SECTION C. Site Level Requirements****II. TESTING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) At least sixty (60) days prior to the performance of the stack testing required by this permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.

(b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this permit.

(c) Within sixty (60) days of the completion of the stack tests required by this permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 006 [25 Pa. Code §139.1]****Sampling facilities.**

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

**# 007 [25 Pa. Code §139.11]****General requirements.**

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

(1) A thorough source description, including a description of any air cleaning devices and the flue.

(2) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process.

(3) The location of sampling ports.

(4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub>), 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.****# 008 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

**SECTION C. Site Level Requirements**

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

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

(a) The permittee shall conduct a weekly inspection of the facility during daylight hours while the facility is operating to detect visible emissions, visible fugitive emissions and malodorous air emissions. Weekly inspections are necessary to determine:

- (1) the presence of visible emissions,
- (2) the presence of visible fugitive emissions,
- (3) the presence of malodors beyond the boundaries of the facility.

(b) All detected visible emissions or visible fugitive emissions shall be reported to the manager of the facility.

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

(a) The permittee shall maintain a logbook for recording weekly inspection including instances of visible emissions, visible fugitive emissions and malodorous air emissions, the name of the company representative monitoring these instances, the date and time of each occurrence.

(b) The permittee shall record any and all corrective action(s) taken to abate each recorded deviation or prevent future occurrences.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 011 [25 Pa. Code §135.5]****Recordkeeping**

(a) The permittee shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with 25 Pa. Code Section 135.3 (relating to reporting). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

(b) These records shall be retained for at least five years and shall be made available to the Department upon request.

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

Upon request by the Department, the permittee shall submit all requested reports in accordance with the Departments suggested format.

**# 013 [25 Pa. Code §127.442]****Reporting requirements.**

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A



**SECTION C. Site Level Requirements**

malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

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

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

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

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

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

**VI. WORK PRACTICE REQUIREMENTS.****# 014 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions for any source specified in 25 Pa. Code Section 123.1 subsection(s) (a)(1)-(7) or (a)(9), to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

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

(3) Paving and maintenance of roadways.

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



**SECTION C. Site Level Requirements**

**VII. ADDITIONAL REQUIREMENTS.**

<p><b># 015 [25 Pa. Code §121.7]</b>  <b>Prohibition of air pollution.</b>  121.7  No person may permit air pollution as that term is defined in the act [The Air Pollution Control Act (35 P.S. §§ 4001-4015)].</p>
<p><b># 016 [25 Pa. Code §123.31]</b>  <b>Limitations</b>  No person may permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.</p>
<p><b># 017 [25 Pa. Code §129.14]</b>  <b>Open burning operations</b>  No person may permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.</p>

**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.**

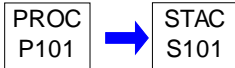
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: P101

Source Name: CONVENTIONAL LINE FURNACES

Source Capacity/Throughput:

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

No person may permit the emission into the outdoor atmosphere of particulate matter from the exhaust of each sintering furnace of Source ID P101 in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

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

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from each sintering furnace of Source ID P101 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The permittee shall only fire natural gas in the flame curtain of each sintering furnace of Source ID P101.

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

(a) The permittee shall keep accurate records that show the identity and percentage of lubricant used in sintering furnaces of Source ID P101.

(b) The permittee shall keep records used to verify compliance with the furnace hydrogen atmosphere requirement (3% H<sub>2</sub>) for sintering furnaces of Source ID P101.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon 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.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.14(a)(8)(44)]

Each sintering furnaces of Source ID P101 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone of the furnace. In addition, in absence of an operating flame curtain, the furnace shall operate an afterburner.

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

The exhaust ductwork and stacks associated with the sintering furnaces of Source ID P101 shall not be cleaned using high temperature clean up ("burn out") procedures.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.14(a)(8)(44)]

Each sintering furnace of Source ID P101 shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

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

The permittee shall only use organic lubricants which contain less than or equal to 0.75% organic lubricant by weight in sintering furnaces of Source ID P101.

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

Source ID P101 consists of following sintering furnaces:

- (1) One ABBOTT manufactured model 8Z SCR-24-168QDP4 240HH-VC-215 furnace (PF 065)
- (2) One ABBOTT manufactured model 8Z SCR-24-168QDP4 240HH-VC-2150, serial #AB369-13080-GKNSME-0100 furnace (PF066)
- (3) One ABBOTT manufactured model 8ZSCR24-168QDP4-240HH4-2150 serial #AB367-13078-GKNSME, 1299 furnace (PF067)
- (4) One ABBOTT manufactured model 8Z SCR-24-168QDP4 240HH-4-VC2150 serial #AB310-13081-GKNSME, 0100 furnace (PF068)
- (5) One ABBOTT manufactured model 8ZSCR-24-168QDP4-240HH4-VC2150 serial #AB393-13508-GKNSME, 0700 furnace (PF069)
- (6) One ABBOTT manufactured model 2ZGAS-36-300HH2-600 serial#AB368-13083-GKNSME 0800 furnace (PF070)

**SECTION D. Source Level Requirements**

(7) One ABBOTT manufactured model 8ZSCR24-168QDP4-240HH4-VC-2150 serial #AB392-13506-GKNSME-0700 (PF072) furnace

(8) One ABBOTT manufactured model#8ZSCR24-168QDP4-240HH4-VC-2150, serial#AB384-13339-GKNSME-0500 furnace (PF073)

(9) One SINTERITE manufactured model 243G/E477 serial #923 furnace (PF076)

**SECTION D. Source Level Requirements**

Source ID: P102

Source Name: INDUCTION HARDENER, QUENCH, AND DRAW FURNACE

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

The opacity of the combined exhaust to the outdoor atmosphere from the induction hardener and draw furnace of Source ID P102 shall not exceed zero percent, by U.S. EPA Test Method 9, at all times.

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

[Compliance with this permit condition assures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter of the combined exhaust to the outdoor atmosphere from the induction hardener and draw furnace of Source ID P102 shall not exceed 0.0005 grains per dry standard cubic foot.

**Throughput Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

Any quenching solution used in Source ID P102 shall not contain hazardous air pollutants.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall monitor, at least once each week, during normal induction hardener and draw furnace operation, the visible emissions of the combined exhaust from the induction hardener and draw furnace. If visible emissions are present in the exhaust, the permittee shall within the same day or next operating day obtain a certified individual to read the opacity via U.S. EPA Test Method 9 during normal induction hardener and draw furnace operation.

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall install, maintain and operate instrumentation to continuously measure and record the temperature of the exhaust entering the ESP. The temperature of the exhaust entering the ESP shall not exceed 150 degrees F. The temperature monitoring system shall be electronically interlocked with the induction hardener and draw furnace to

**SECTION D. Source Level Requirements**

immediately shut down the induction hardener and draw furnace should the exhaust temperature to the ESP exceed 150 degrees F.

The temperature records shall be retained for a minimum of five years and shall be made available to the Department upon request.

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

The permittee shall monitor and record at least once each day the status of the indicator light on each power pack access door of each module of the ESP. If an indicator lamp is flashing or is not lit, the permittee shall within the same day perform the troubleshooting procedures and repairs/corrective actions contained on pages 17 through 20 of the manufacturer's manual. The permittee shall record the troubleshooting procedures performed and the repairs/corrective actions made. In addition, the permittee shall record the output voltages to the ionizer section and collection section of each affected module before and after the repairs/corrective actions made. The output voltage to the ionizer section shall be 10.0 to 11.5 KVDC and the output voltage to the collection section shall be 4.5 to 7.3 KVDC. Repairs/corrective actions that can be made during troubleshooting shall be performed the same day; repairs that require replacement parts shall be completed within 15 days of diagnosis. If either the ionizer section output voltage or the collection section output voltage is outside of the above ranges, the induction hardener and draw furnace shall not be operated until the voltages are restored to within the above required ranges.

All records shall be retained for a minimum of five years and shall be made available to the Department upon request.

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

The permittee shall keep records of the results of the weekly visible emissions readings of the combined exhaust from the induction hardener and draw furnace. In addition, the permittee shall keep records of any U.S. EPA Test Method 9 opacity measurements and resulting averages and any corrective actions taken if the average opacity exceeds zero percent.

The records shall be retained for a minimum of five years and shall be made available to the Department upon request.

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

The permittee shall keep the following records of each manual cleaning of the ESP: date of cleaning, type of detergent used (including MSDS), detergent strength, water temperature, type of agitation/impingement used, duration of soaking, rinse procedure and dry-out time.

The records shall be retained for a minimum of five years and shall be made available to the Department upon request.

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

The permittee shall keep records of the results of each weekly inspection and the repairs/corrective actions made.

The records shall be retained for a minimum of five years and shall be made available to the Department upon request.

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

The permittee shall keep records of the amount of Aquacool AC, or equivalent or lower VOC content and vapor pressure quencher, used each month in the induction hardener.

The records shall be retained for a minimum of five years and shall be made available to the Department upon 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.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall manually clean the internal components of the ESP at least once every three months in accordance with the manual cleaning and inspection procedures specified on pages 14 through 16 of the manufacturer's manual. The induction hardener and the draw furnace of Source ID P102 shall not be operated during ESP cleaning.

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

The permittee shall operate and maintain the ESP as per the manufacturer's recommendation.

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

Source ID P102 consists of a natural gas fired Abbott Furnace Company draw furnace (PF74) and an electrically heated i. Eldec induction hardener (PF99) incorporating two quenching stations.

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

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

The air contaminant emissions from the draw furnace and induction hardener shall be collected by three fume hoods (one over the heating coils and quenching stations of the induction hardener, one over the inlet to the draw furnace and one over the outlet of the draw furnace) and shall be controlled by a United Air Specialists, Inc. model PSG-32-3 two-stage electrostatic precipitator (ESP) (Control Device ID C102).

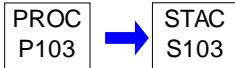


**SECTION D. Source Level Requirements**

Source ID: P103

Source Name: FORGING LINE FURNACES

Source Capacity/Throughput:

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

No person may permit the emission into the outdoor atmosphere of particulate matter from the exhaust of each sintering furnace of Source ID P103 in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

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

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from each sintering furnace of Source ID P103 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The permittee shall only fire natural gas in the flame curtain of each sintering furnace of Source ID P103.

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

(a) The permittee shall keep accurate records that show the identity and percentage of lubricant used in sintering furnaces of Source ID P103.

(b) The permittee shall keep records used to verify compliance with the furnace hydrogen atmosphere requirement (3% H<sub>2</sub>) for sintering furnaces of Source ID P103.

(c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon 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.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The exhaust ductwork and stacks associated with the sintering furnaces of Source ID P103 shall not be cleaned using high temperature clean up ("burn out") procedures.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.14(a)(8)(44)]

Each sintering furnace of Source ID P103 shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.14(a)(8)(44)]

Each sintering furnace of Source ID P103 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone of the furnace. In addition, in absence of an operating flame curtain, the furnace shall operate an afterburner.

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

The L2 rotary hearth furnace (PF103) of Source ID P103 shall be equipped with an operating flame curtain between the parts entry and exit of the furnace.

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

The permittee shall only use organic lubricants which contain less than or equal to 0.75% organic lubricant by weight in sintering furnaces of Source ID P103.

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

Source ID P103 consists of the following furnaces:

- (1) One ABBOTT manufactured model 9ZSCR-36-168QDP4-312 HH5-2150, serial #AB256-11825-BWAR-0198 (PF105) (Line 4)
- (2) One DREVER manufactured model 2Z-18-168CC, serial #ABB190-16428-GKNSMR-0504 (PF089) (Line 4)
- (3) One OBRIEN GERE manufactured serial 16428 Rotary Hearth Furnace (PF107) (Line 4)
- (4) One ABBOTT manufactured model 10ZSCR-36-168QDP4-372HH6-VC-2150, serial #AB347-12719-GKNSME-1199 (PF061) (line 6)
- (5) One ABBOTT manufactured model 10ZSCR-36-168QDP4-372HH6-VC-2150, serial #AB478-15015-GKNSME-1002 (PF082) (line 7)

**SECTION D. Source Level Requirements**

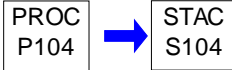
- (6) One ABBOTT manufactured model 10ZSCR-36-168QDP4-372HH6-VC-2150, serial #AB479-15017-GKNSME-1102 (PF083) (line 8)
- (7) One ABBOTT manufactured model 10ZSCR-36-168QDP4-372HH6-VC-2150 serial #AB493-15581-GKNSME-0603 (PF090) (line 9)
- (8) One ABBOTT manufactured model 2Z-24-203CC, serial #ABB175-15592-GKNSME-0603 (PF091) (line 9)
- (9) One OBRIEN GERE manufactured model H3A-R, serial #T-9670-1 Rotary Hearth furnace (PF093) (line 10A)
- (10) One OBRIEN GERE manufactured model H3A-R, serial #T-3670-2PF094 Rotary Hearth furnace (PF094) (Line 11)
- (11) One OBRIEN GERE manufactured model R339 Rotary Hearth furnace (PF109) (Line 12)
- (12) One ABBOTT manufactured model 9ASCR-36-168QDP4-312HH6-VC-2150, serial #AB260-11865-GKNSMR-0599 (PF108).

**SECTION D. Source Level Requirements**

Source ID: P104

Source Name: FORGING LINE 5 FURNACES

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 27.12]

The metal powders used to make the parts processed through the sintering furnaces of Source ID P104 shall not contain any zinc stearate, lithium stearate or any other metallic lubricant. Additionally, the maximum organic lubricant (Acrawax) content of the metal powders shall be 1.0% by weight.

**II. TESTING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 27.12]

The temperature of the furnaces of Source ID P104 shall be monitored and shall not be allowed to exceed 2,500 degree F.

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

(a) The permittee shall keep accurate records that show the identity and percentage of lubricant used in sintering furnaces of Source ID P104.

(b) The permittee shall keep records of the delube zone temperature of furnaces of Source ID P104.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon 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.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 27.12]

**SECTION D. Source Level Requirements**

The delube zone associated with the sintering furnaces of Source ID P104 shall be operated in an oxidizing, rather than a reducing, mode at all times. Additionally, the delube zone outlet temperature of each furnace of Source ID P104 shall be monitored and shall not fall below a minimum temperature of 1150 degree F at any time the furnaces of Source ID P104 are in operation. The Department reserve the right to require a higher temperature should it determine that a higher temperature is required to assure compliance with any applicable air contaminant emissions limitation.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 27.12]

The stacks of the sintering furnaces of Source ID P104 shall not be cleaned by using high temperature cleanup ("burn out") procedures.

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

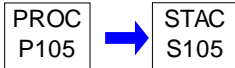
Source ID P104 consist of ABBOTT manufactured model 10ZSCR-36-168QDP4-372HH6-VC-2150 with serial #AB344-12659-GKNSME 0599 furnace (PF059) and associated cool down unit, ABBOTT manufactured model 2Z12-240CC with serial #AB118-12870-GKNSME-0699 (PF060). The air contaminant emissions from each furnace of Source ID P104 shall be controlled by an integral natural gas-fired delube zone.

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: TWO FURNACES WITH ENDO GAS GENERATORS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from the exhaust of each sintering furnace of Source ID P105 in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

# 002 [25 Pa. Code §123.21]

**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from each sintering furnace of Source ID P105 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

For using metal-containing lubricants in the sintering furnaces PF 111 and PF 112, the emission of particulate matter (PM/PM<sub>10</sub>) from the sintering furnace PF 111 and PF 112 shall be less than 0.15 pounds per hour (as determined by mass balance or stack tests). For mass balance purpose, the following conversion factor is to be used: Zinc Stearate to Zinc Oxide particulate matter=0.129.

**Fuel Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only fire natural gas in the flame curtain of each sintering furnace of Source ID P105.

**Throughput Restriction(s).**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The production rate of the sintering furnace PF 111 as well as PF 112 shall not exceed 450 pounds of sinter metal product per hour while using zinc stearate as a lubricant.

**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).

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

- (a) The permittee shall keep accurate records that show the identity and percentage of lubricant used in sintering furnaces of Source ID P105.
- (b) The permittee shall keep records used to verify compliance with the furnace hydrogen atmosphere requirement (3% H<sub>2</sub>) for sintering furnaces of Source ID P105.
- (c) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

For the sintering furnace PF 111 and PF 112, the permittee shall keep records of the following:

- (a) The calculations used to verify compliance with the 0.15 lb/hr particulate matter (PM/PM<sub>10</sub>) emission limitation for the furnace.
- (b) The amount of product processed in the furnace PF 111 and PF 112 and the number of hours the furnace operated on a monthly basis and calculations verifying the pounds of product per hour limitation for the furnace.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.14(a)(8)(44)]

Each sintering furnace of Source ID P105 shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

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

The exhaust ductwork and stacks associated with the sintering furnaces of Source ID P105 shall not be cleaned using high temperature clean up ("burn out") procedures.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.14(a)(8)(44)]

Each sintering furnace of Source ID P105 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone of the furnace. In addition, in absence of an operating flame curtain, the furnace shall operate an afterburner.

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

The L2 rotary hearth furnace (PF103) of Source ID P105 shall be equipped with an operating flame curtain between the parts

**SECTION D. Source Level Requirements**

entry and exit of the furnace.

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

The permittee shall only use organic lubricants which contain less than or equal to 0.75% organic lubricant by weight in sintering furnaces of Source ID P105.

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

No more than 4800 cubic feet per hour (cfh) of endothermic gas shall be generated in endothermic generator #21.

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

The permittee shall maintain natural gas fired burners in the exhaust stacks of the sintering furnaces (PF 111 and PF112) and endothermic generator (#22).

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

Source ID P105 consist of the following furnaces:

(1) One ABBOTT manufactured model 8ZSCR-36-168QDP4-240HH4-VC-2150, serial #AB635-19159-GKNSME-1107 furnace (PF111)

(2) One ABBOTT manufactured model 8ZSCR-36-168QDP4-240HH4-VC-2150, serial #AB648-19805-GKNSME-0608 furnace (PF112)

(3) One SURFACE COMBUSTION manufactured model RX-60-120-4VT, serial #CC 12212-1 endothermo gas generator (GAS GENERATOR #22) (PG017).

(4) One Holcroft manufactured model CJ4335G, serial #21804PG016 endothermo gas generator (GAS GENERATOR #21) (PG016).

(5) One ABBOTT manufactured model 9ZSCR-36-168QDP4-315HH5-VC-2150, serial #AB472-14863-GKNSMR-0602 (PF103)  
(Line 2).

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

The permittee shall not sinter metal parts that are treated with oil in the sintering furnace PF 111 and PF 112.

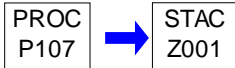


**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: ONE METHANOL TANK

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

All methanol vapors from Source ID P107 shall be recovered when the storage tank is being filled by use of a return line to the supply tank truck.

**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.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Source ID P107 consist of one 15,000 gallons methanol storage tank.

**SECTION D. Source Level Requirements**

Source ID: P201

Source Name: FINISHING LINES 4, 10A, 11, 12 AND SHOT BLASTING OPERATION

Source Capacity/Throughput:

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the particulate matter emissions at the exhaust of the cartridge collector (DC015) associated with Source ID P201 shall not exceed 0.002 grains per dry standard cubic foot (gr/dscf) at any time.

**II. TESTING REQUIREMENTS.**

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

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the cartridge collector (ID C201) associated with Source ID P201 shall be equipped with instrumentation to continuously and accurately measure the differential pressure across ID C201.

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

A sufficient quantity of spare cartridges shall be kept on hand at all times for the cartridge collector (ID C201), in order to immediately replace any cartridges requiring replacement due to deterioration resulting from routine collector operation.

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

The compressed air supplied to the cartridge collector shall be dry and oil free.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P201 consists of finishing lines #4, 10A, 11, 12 and the shot blasting operation. The particulate matter emissions from Source ID P201 shall be controlled by a Donaldson-Torit model DFO 4-64 cartridge collector (DC015) (ID C201) at all times.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 123.1]

Dust shall only be removed from the cartridge collector hopper such that the fugitive emissions from the loading and unloading of hopper comply with 25 Pa. Code Section 123.1.

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

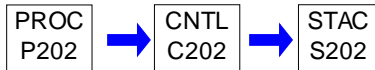
The cartridge collector (ID C201) associated with Source ID P201 shall be operated and maintained as per the manufacturer's specifications and recommendations.

**SECTION D. Source Level Requirements**

Source ID: P202

Source Name: FINISHING LINES 5 THROUGH 10

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the particulate matter emissions at the exhaust of the cartridge collector (DC017) associated with Source ID P202 shall not exceed 0.002 grains per dry standard cubic foot (gr/dscf) at any time.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the cartridge collector (ID C202) associated with Source ID P202 shall be equipped with instrumentation to continuously and accurately measure the differential pressure across ID C202.

**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.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

A sufficient quantity of spare cartridges shall be kept on hand at all times for the cartridge collector (ID C202), in order to immediately replace any cartridges requiring replacement due to deterioration resulting from routine collector operation.

**VII. ADDITIONAL REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The compressed air supplied to the cartridge collector shall be dry and oil free.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P202 consists of finishing lines #5,,6,7,8,9, and 10. The particulate matter emissions from Source ID P202 shall be controlled by a Donaldson-Torit model DFO 4-64 cartridge collector (DC017) (ID C202) at all times.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 123.1]

Dust shall only be removed from the cartridge collector hopper such that the fugitive emissions from the loading and unloading of hopper comply with 25 Pa. Code Section 123.1.

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

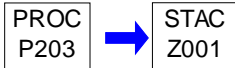
The cartridge collector (ID C202) associated with Source ID P202 shall be operated and maintained as per the manufacturer's specifications and recommendations.

**SECTION D. Source Level Requirements**

Source ID: P203

Source Name: TWO AQUEOUS PARTS WASHERS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall not use any VOC or HAP containing material in any parts washer of Source ID P203 without first obtaining prior approval from the Department.

**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.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

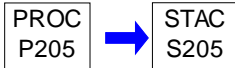
Source ID P203 consists of two self contained tooling parts washers.

**SECTION D. Source Level Requirements**

Source ID: P205

Source Name: FOUR ABBOTT FURNACES

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall not use any metallic lubricants in any furnace of Source ID P205.

**Throughput Restriction(s).**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Acrawax content in the powdered metals to be processed in the sintering furnace of Source ID P205 shall be equal to or less than 0.75% by weight.

**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.**

(a) The permittee shall keep records of the amount of product (in pounds per hour) processed in each furnace of Source ID P205 and the number of hours each furnace operated on a monthly basis.

(b) These records shall be maintained for at least five (5) years and be made available to the Department upon request.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**(a) The permittee shall keep records of supporting documentation used to verify compliance with the organic lubricant (Acrawax) content limitation for each batch of powdered metals processed in the sintering furnaces of Source ID P205. In addition, the permittee shall keep records used to verify compliance with the furnace hydrogen atmosphere requirement (3% H<sub>2</sub>).

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon 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).

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

The permittee shall maintain an operating flame curtain between the parts entry and pre-heat zone in each sintering furnace of Source ID P205.

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

The furnace atmosphere in each sintering furnace of Source ID P205 shall contain Hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during powdered metal processing.

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

The permittee shall not sinter metal parts that are treated with oil in the sintering furnaces of Source ID P205.

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

Source ID P205 consists of four (4) Abbott Furnace Company manufactured sintering furnaces (identified as: PF-078, PF-092, PF-100, and PF-118).



**SECTION D. Source Level Requirements**

Source ID: P206

Source Name: NEW FORGING LINE AND PRESS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The particulate matter emission from the forging press associated with forging line shall not exceed 0.001 grains per dry standard cubic feet.

**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.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only process presintered parts in the rotary hearth furnace of the forging line of Source ID P206. The presintered parts processed in furnace associated with the forging line of P206 shall not contain any organic or metallic lubricant. In addition, the permittee shall not process any parts that are treated with oil in the furnace associated with the forging line of Source ID P206.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The particulate matter emissions from forging press of Source ID P206 shall be controlled by Donaldson-Torit model DFO 4-64 dust collector.

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

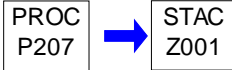
Source ID P206 is forging line which is comprised of a Lasco manufactured forge press and an O'Brien & Gere manufactured rotary hearth sintering furnace.

**SECTION D. Source Level Requirements**

Source ID: P207

Source Name: SAFETY-KLEEN PARTS WASHER

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The total combined potential volatile organic compound (VOC) emissions from parts washer of Source ID P207 shall not exceed 1.0 tons in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the identity and amount of the solvent used in parts washer of Source ID P207 on a monthly basis.

(b) The records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

(a) The permittee shall keep records of the following:

- (1) The name and address of the solvent supplier,
- (2) The type of solvent including the product or vendor identification number,
- (3) The vapor pressure of the solvent measured in millimeters of mercury (mm Hg) at 68 degrees Fahrenheit.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

The permittee shall keep onsite records of up-to-date Certified Product Data Sheets (CPDSs) or Material Safety Data Sheets (MSDSs) that accurately identify the volatile organic compound (VOC) and hazardous air pollutant (HAP) content of the solvent(s) used in parts washer of Source ID P207.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

Parts washer of Source ID P207 shall be operated in accordance with the following procedures:

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

The vapor pressure of VOC containing solvent use in the parts washer of Source ID P207 shall be less than 1.0 millimeter of mercury (mm Hg) measured at 20 degrees Celsius (68 degrees Fahrenheit).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

Parts washer of Source ID P207 shall have a permanent, conspicuous label summarizing all required operating procedures specified in Condition #005 for Source ID P207. In addition, the label shall include the following discretionary good operating practices:

- (1) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining.
- (2) During the draining, tipping, or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.
- (3) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

**SECTION D. Source Level Requirements**

Parts washer of Source ID P207 shall be equipped with a cover that shall be closed at all times except during the cleaning of parts or the addition or removal of solvent. For parts washer of Source ID P207, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

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

Parts washer of Source ID P207 is subject to 25 Pa. Code Section 129.63(a) (Degreasing Operations - Cold Cleaning Machines). The permittee shall comply with all applicable requirements specified in 25 Pa. Code Section 129.63(a).

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

Source ID P207 consists of one Safety-Kleen, Inc. manufactured model 34.1 parts washer cold cleaning recirculatory type parts washer.

**SECTION D. Source Level Requirements**

Source ID: P208

Source Name: TWO CONVEYOR DIP TANKS

Source Capacity/Throughput:

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

The total potential combined usage of Ferrocode 5856 BF T1 solvent in both conveyor dip stations (PA 396 and PA 397) of Source ID P208 shall not exceed 2,800 gallons in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

Metaldyne shall keep records of the solvent usage and supporting emissions calculations from both the conveyor dip stations of Source ID P208 on site and shall be made available to the Department upon request.

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

Metaldyne shall keep on site a sufficient quantity of spare carbon filters for Fumex® Air Filtration Systems manufactured Model GS3-5 in order to be able to immediately replace any bags requiring replacement due to deterioration.

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

Metaldyne shall keep lids of each conveyor dip station closed while stations are in operation or during idle.

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

The VOC emissions from each conveyor dip tanks of Source ID P208 shall be controlled by Fumex® Air Filtration Systems manufactured Model GS3-5 activated carbon absorption device.

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

Metaldyne shall operate and maintain both conveyor dip stations of Source ID P208 and associated Fumex® Air Filtration Systems manufactured Model GS3-5 activated carbon absorption device system as per the manufacturer's specification and recommendation.

**SECTION D. Source Level Requirements**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P208 consists of two conveyor dip stations manufactured by New London Engineering Company.



**SECTION E. Source Group Restrictions.**



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



**SECTION H. Miscellaneous.**



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

---