



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

**STATE ONLY NATURAL MINOR OPERATING PERMIT**

Issue Date: January 14, 2022

Effective Date: January 14, 2022

Expiration Date: January 13, 2027

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: 17-00046**

Natural Minor

Federal Tax Id - Plant Code: 25-1372569-1

**Owner Information**

Name: HPM IND INC  
Mailing Address: 125 TOM MIX DR  
DUBOIS, PA 15801-2541

**Plant Information**

Plant: HPM IND INC/ATLAS PRESSED METALS DUBOIS  
Location: 17 Clearfield County 17001 DuBois City  
SIC Code: 3499 Manufacturing - Fabricated Metal Products, Nec

**Responsible Official**

Name: TOM PFINGSTLER  
Title: ENG MGR  
Phone: (814) 371 - 4800 Email: TomPfungstler@atlaspressed.com

**Permit Contact Person**

Name: TOM PFINGSTLER  
Title: ENG MGR  
Phone: (814) 371 - 4800 Email: TomPfungstler@atlaspressed.com

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

*MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION*



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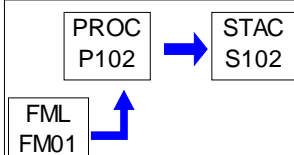
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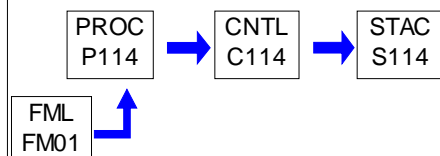
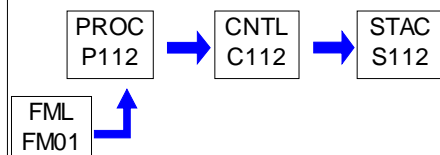
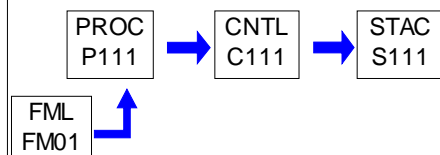
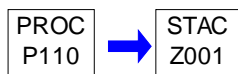
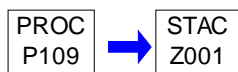
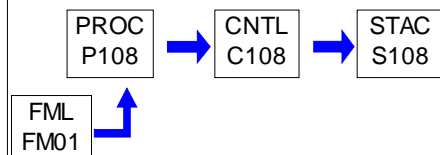
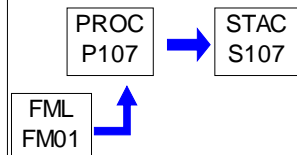
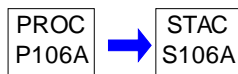
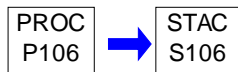
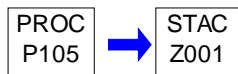
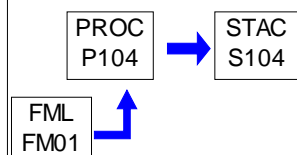
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
P102	ELECTRIC SINTERING FURNACE 5		
P104	ELECTRIC SINTERING FURNACE 7		
P105	POWDERED METAL PARTS DIP SIZING		
P106	ELECTRIC DRYING OVEN		
P106A	DESPATCH TEMPERING OVEN		
P107	ELECTRIC SINTERING FURNACE 8		
P108	ELECTRIC SINTERING FURNACE 9		
P109	OIL IMPREGNATION		
P110	PARTS WASHER		
P111	ELECTRIC SINTERING FURNACE 10		
P112	ELECTRIC SINTERING FURNACE #12	1,000.000 Lbs/HR	POWDERED METAL
P114	ELECTRIC SINTERING FURNACE #14	1,400.000 Lbs/HR	POWDERED METAL
P115	ELECTRIC SINTERING FURNACE #15	600.000 Lbs/HR	SINTERED PARTS
P116	ELECTRIC SINTERING FURNACE #16	600.000 Lbs/HR	SINTERED PARTS
C108	FURNACE 9 AFTERBURNER		
C111	FURNACE 10 AFTERBURNER		
C112	FURNACE 12 AFTERBURNER		
C114	FURNACE 14 AFTERBURNER		
FM01	NATURAL GAS		
S102	FURNACE 5 STACK		
S104	FURNACE 7 STACK		
S106	DRYER STACK		
S106A	TEMPERING OVEN STACK		
S107	SINTERING FURNACE 8 STACK		
S108	SINTERING FURNACE 9 STACK		
S111	SINTERING FURNACE 10 STACK		
S112	FURNACE #12 STACK		
S114	FURNACE #14 STACK		
S115	FURNACE #15 STACK		
S116	FURNACE #16 STACK		
Z001	FUGITIVE EMISSIONS		

**PERMIT MAPS**

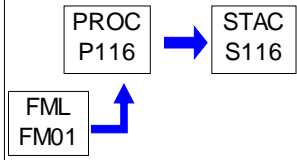
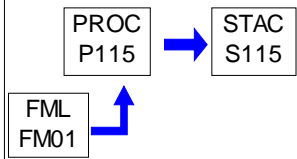


## PERMIT MAPS





### PERMIT MAPS



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

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

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

(a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.

(b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

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

(a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.

(b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

(c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.

(e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).

(f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

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

(a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.

(1) For a synthetic minor facility, a fee equal to:

(i) Four thousand dollars (\$4,000) for calendar years 2021—2025.

(ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.

(iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) One ton of NO<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(1)-(7) above, 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) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing an EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. One electronic copy and one hard copy shall be sent to the Northcentral Regional Office Air Quality Program Manager and one hard copy and one electronic copy shall be sent to the PSIMS Administrator in Central Office. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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

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

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

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

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

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

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

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

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

If, at any time, the Department has cause to believe that air contaminant emissions from any of the sources authorized herein are in excess of the limitations specified in, or established pursuant to, any applicable regulation contained in 25 Pa. Code, Subpart C, Article III, the Department may require the permittee to conduct tests deemed necessary by the Department to determine the actual emission rate(s). The permittee shall perform such tests in accordance with applicable provisions of 25 Pa. Code, Chapter 139 (relating to sampling and testing) and in accordance with any restrictions or limitations established by the Department within one hundred and eighty (180) days of the date the Department notifies the permittee, in writing, of the testing requirement.

**# 007 [25 Pa. Code §139.1]****Sampling facilities.**

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and



**SECTION C. Site Level Requirements**

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.

**# 008 [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.****# 009 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

(a) The permittee shall conduct a weekly inspection of the facility during daylight hours while the facility is operating to detect visible emissions, visible fugitive emissions and malodors. 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, visible fugitive emissions or malodors, that have the potential to exceed applicable limits, shall be reported to the manager of the facility.

**SECTION C. Site Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall keep a logbook of the facility's weekly inspections. The logbook shall include the name of the company representative performing the inspection, the date and time of inspections, any instances of exceedances of visible emissions limitations, visible fugitive emissions limitations and malodorous air emissions limitations, and the name of the manager informed if a potential exceedance is observed. The permittee shall also record any and all corrective action(s) taken to abate each recorded deviation to prevent future occurrences.

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

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

The permittee shall keep records of Certified Product Data Sheets (CPDSs) or Material Safety Data Sheets (MSDSs) to verify the volatile organic (VOC) and hazardous air pollutant (HAP) contents of all VOC and HAP containing materials used at the facility.

**V. REPORTING REQUIREMENTS.****# 013 [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 Department's suggested format.

**# 014 [25 Pa. Code §127.442]****Reporting requirements.**

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

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by 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.

**SECTION C. Site Level 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.****# 015 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

For any source specified in 25 Pa. Code Section 123.1 subsection(s) (a)(1)-(7) or (a)(9), the permittee shall take all reasonable actions 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.

**VII. ADDITIONAL REQUIREMENTS.****# 016 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the act [The Air Pollution Control Act (35 P.S. §§ 4001-4015)].

**# 017 [25 Pa. Code §123.31]****Limitations**

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.

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

No person may permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

**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: P102

Source Name: ELECTRIC SINTERING FURNACE 5

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P102, 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 §127.441]

**Operating permit terms and conditions.**

When using metal-containing lubricants in Source ID P102, the emission of particulate matter from the sintering furnace shall not equal or exceed 0.15 lb/hr (as determined by mass balance or stack test). For mass balance purposes, the following conversion factors are to be used:

Zinc Stearate to Zinc Oxide particulate matter = 0.129.

Lithium Stearate to Lithium Carbonate particulate matter = 0.15

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel for the flame curtain of Source ID P102.

**Throughput Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use organic lubricants or lubricant blends which contain less than or equal to 1.25% organic lubricant (total by weight) in Source ID P102 (Furnace 5), as per the specifications provided by RFD 8997.

**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.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the following for Source ID P102:

**SECTION D. Source Level Requirements**

- (1) The organic lubricant or lubricant blend content and formulation for each batch of powdered metals processed in the sintering furnace, to verify compliance with the organic and metallic lubrication limitations.
- (2) The percent of hydrogen (H<sub>2</sub>) contained in the sintering furnace atmosphere, at least once per product run.
- (3) The supporting calculations used to verify compliance with the 0.15-lb/hr particulate matter emission limitation for any product processed with either Zinc Stearate or Lithium Stearate through the sintering furnace.
- (b) These records shall be kept 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.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P102 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone.

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The sintering furnace atmosphere, in Source ID P102, shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall not sinter metal parts that are treated with oil, in Source ID P102.

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P102 is an electric sintering metal furnace, Abbott Model #4ZSCR-18-96-PH2-120HH2-2100 with a 0.04 MMBtu/hr natural gas fired flame curtain.

**SECTION D. Source Level Requirements**

Source ID: P104

Source Name: ELECTRIC SINTERING FURNACE 7

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P104, 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 §127.441]

**Operating permit terms and conditions.**

When using metal-containing lubricants in Source ID P104, the emission of particulate matter from the sintering furnace shall not equal or exceed 0.15 lb/hr (as determined by mass balance or stack test). For mass balance purposes, the following conversion factors are to be used:

Zinc Stearate to Zinc Oxide particulate matter = 0.129.

Lithium Stearate to Lithium Carbonate particulate matter = 0.15

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel for the flame curtain of Source ID P104.

**Throughput Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use organic lubricants or lubricant blends which contain less than or equal to 1.25% organic lubricant (total by weight) in Source ID P104 (Furnace 7), as per the specifications provided by RFD 8997.

**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.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the following for Source ID P104:

**SECTION D. Source Level Requirements**

- (1) The organic lubricant or lubricant blend content and formulation for each batch of powdered metals processed in the sintering furnace, to verify compliance with the organic and metallic lubrication limitations.
- (2) The percent of hydrogen (H<sub>2</sub>) contained in the sintering furnace atmosphere, at least once per production run.
- (3) The supporting calculations used to verify compliance with the 0.15-lb/hr particulate matter emission limitation for any product processed with Lithium Stearate or Zinc Stearate through the sintering furnace.
- (b) These records shall be kept 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.**

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

**VII. ADDITIONAL REQUIREMENTS.**

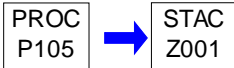
# 006	[25 Pa. Code §127.441]
<b>Operating permit terms and conditions.</b>	
Source ID P104 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone.	
# 007	[25 Pa. Code §127.441]
<b>Operating permit terms and conditions.</b>	
The sintering furnace atmosphere, in Source ID P104, shall contain hydrogen (H <sub>2</sub> ) at 3% or greater, at all times, during the sintering process.	
# 008	[25 Pa. Code §127.441]
<b>Operating permit terms and conditions.</b>	
The permittee shall not sinter metal parts that are treated with oil, in Source ID P104.	
# 009	[25 Pa. Code §127.441]
<b>Operating permit terms and conditions.</b>	
Source ID P104 is an electric sintering metal furnace, Abbott Model #4ZSCR-24-120PH2-120HH2-2100 with a 0.04 MMBtu/hr natural gas fired flame curtain	

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: POWDERED METAL PARTS DIP SIZING

Source Capacity/Throughput:

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

The permittee shall not emit more than 10 tons of volatile organic compounds (VOC) from Source ID P105 in any 12 consecutive month period.

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

The total emissions of volatile organic compounds (VOC) due to the usage (total volume) of Multical M9 at the facility shall not exceed 2.7 tons in any 12 consecutive month period. The VOC content of Multical M9 be equal to or less than approximately 7.2 pounds VOC per gallon of Multical M9 as verified by the manufacturer formulation data or other approved methods by the Department..

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

The permittee shall only use Kensol 30 lubricant in Source ID P105. The permittee shall obtain approval from the Department prior to the use of any other volatile organic compound (VOC) containing lubricants in Source ID P105. In accordance with approval of RFD 7894, the permittee may use the Multical M9 product in the Powdered Metal Parts Dip Sizing (Source ID P105) as alternative to the Kensol 30 product.

**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 records of the following information for Source ID P105:

(1) The total amount of Kensol 30 used in Source ID P105 on a monthly basis (gallons).

(2) The total emissions of volatile organic compounds (VOC) due to the usage of Kensol 30 on a monthly basis (pounds/tons) and the other supporting calculations and information used to verify compliance with the 10-TPY VOC emission limitation in any 12 consecutive month period.

(3) The total amount of Multical M9 used in Source ID P105 on a monthly basis (gallons).

(4) The total emissions of volatile organic compounds (VOC) due to the usage of Multical M9 on a monthly basis



**SECTION D. Source Level Requirements**

(pounds/tons) and the other supporting calculations and information used to verify compliance with the 2.7-TPY VOC emission limitation in any 12 consecutive month period.

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

**V. REPORTING REQUIREMENTS.**

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall submit an annual report to the Department which includes the following information for Source ID P105:

- (1) The amount of Kensol 30 used in Source ID P105 on a monthly basis.
- (2) The emission of volatile organic compounds (VOC) on a monthly basis and the supporting calculations used to verify compliance with the VOC emission limitation in any 12 consecutive month period.

(b) The annual report shall be submitted to the Department no later than March 1 (January 1 through December 31 of the previous year).

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

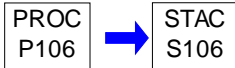
Source ID P105 is a metal powdered parts dip sizing operation that includes seven (7) 10 gallon dip drums and eleven (11) sizing presses.

**SECTION D. Source Level Requirements**

Source ID: P106

Source Name: ELECTRIC DRYING OVEN

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only process parts which have been dipped in Markee Corporation MK 144, Markee Corporation MK Gold or Markee Corporation MK Gold T-11 in Source ID P106. Source ID P106 shall not be used to process parts dipped in any other volatile organic compound (VOC) containing material without 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.**

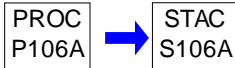
Source ID P106 is an Abott Engineering electric drying oven used to dry sintered metal parts.

**SECTION D. Source Level Requirements**

Source ID: P106A

Source Name: DESPATCH TEMPERING OVEN

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 any process not listed in subsection (b)(1) in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute. Allowable emissions under this subsection are graphically indicated in Appendix C cited within 123.13.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Source ID P106A shall only process parts that have been sintered and free of any oil or grease. Sintered parts which have been dipped in Markee Corporation MK 144, Markee Corporation MK Gold or Markee Corporation MK Gold T-11 that contain no VOCs in their formulations may be processed by Source ID P106A.

**VII. ADDITIONAL REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

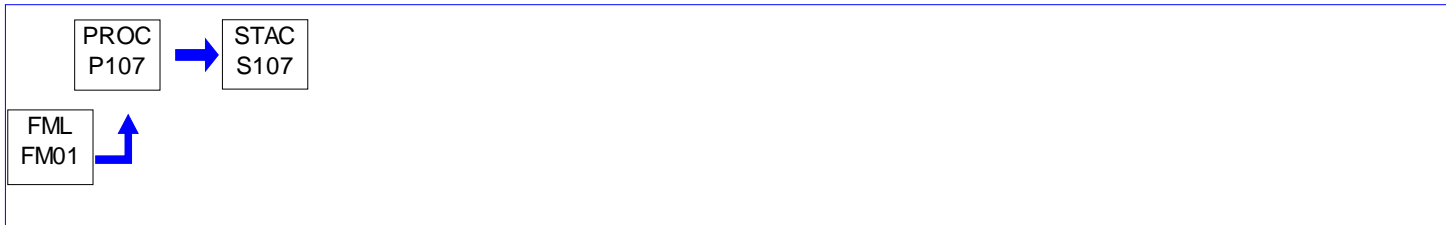
Source ID P106A consists of the Despatch model TFD3-10-1E (s/n 177375) electric tempering oven that is used to process and dry sintered parts that have been wet tumbled and this source construction and operation was determined to qualify for plan approval exemption based on RFD 6404.

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: ELECTRIC SINTERING FURNACE 8

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P107, 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 §127.441]

**Operating permit terms and conditions.**

When using metal-containing lubricants in Source ID P107, the emission of particulate matter from the sintering furnace shall not equal or exceed 0.15 lb/hr (as determined by mass balance or stack test). For mass balance purposes, the following conversion factors are to be used:

Zinc Stearate to Zinc Oxide particulate matter = 0.129.

Lithium Stearate to Lithium Carbonate particulate matter = 0.15

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel for the flame curtain of Source ID P107.

**Throughput Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use organic lubricants or lubricant blends which contain less than or equal to 1.25% organic lubricant by weight in Source ID P107.

**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.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the following for Source ID P107:

**SECTION D. Source Level Requirements**

- (1) The organic lubricant or lubricant blend content and formulation for each batch of powdered metals processed in the sintering furnace, to verify compliance with the organic and metallic lubrication limitations.
- (2) The percent of hydrogen (H<sub>2</sub>) contained in the sintering furnace atmosphere, at least once per production run.
- (3) The supporting calculations used to verify compliance with the 0.15-lb/hr particulate matter emission limitation for any product processed with Zinc Stearate and Lithium Stearate through the sintering furnace.
- (b) These records shall be kept 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.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P107 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone.

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The sintering furnace atmosphere, in Source ID P107, shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall not sinter metal parts that are treated with oil, in Source ID P107.

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P107 is an electric sintering metal furnace, Abbott Model #3ZSCR-18-144HH3-1850 with a 0.04 MMBtu/hr natural gas fired flame curtain.

**SECTION D. Source Level Requirements**

Source ID: P108

Source Name: ELECTRIC SINTERING FURNACE 9

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P108, 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 §127.441]

**Operating permit terms and conditions.**

When using metal-containing lubricants in Source ID P108, the emission of particulate matter from the sintering furnace shall not equal or exceed 0.15 lb/hr (as determined by mass balance or stack test). For mass balance purposes, the following conversion factors are to be used:

Zinc Stearate to Zinc Oxide particulate matter = 0.129.

Lithium Stearate to Lithium Carbonate particulate matter = 0.15

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel for the flame curtain of Source ID P108.

**Throughput Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use organic lubricants or lubricant blends which contain less than or equal to 1.25% organic lubricant (total by weight) in Source ID P108, as per the specifications provided by RFD 8997.

**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.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the following for Source ID P108:

**SECTION D. Source Level Requirements**

- (1) The organic lubricant or lubricant blend content and formulation for each batch of powdered metals processed in the sintering furnace, to verify compliance with the organic and metallic lubrication limitations.
- (2) The percent of hydrogen (H<sub>2</sub>) contained in the sintering furnace atmosphere in the sintering furnace, at least once per production run.
- (3) The supporting calculations used to verify compliance with the 0.15-lb/hr particulate matter emission limitation for any product processed with Zinc Stearate and Lithium Stearate through the sintering furnace.
- (b) These records shall be kept 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.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P108 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone.

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The sintering furnace atmosphere, in Source ID P108, shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall not sinter metal parts that are treated with oil, in Source ID P108.

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

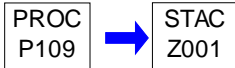
Source ID P108 is an electric sintering metal furnace, Abbott Model #7ZSCR-24-168PH3-216HH4-VC-2150 with a 0.04 MMBtu/hr natural gas fired flame curtain.

**SECTION D. Source Level Requirements**

Source ID: P109

Source Name: OIL IMPREGNATION

Source Capacity/Throughput:

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

The permittee shall not emit more than or equal to 10 tons of volatile organic compounds (VOC) from Source ID P109 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 following information for Source ID P109:

- (1) The amount of volatile organic compound (VOC) containing material utilized on a monthly basis.
- (2) The emission of VOC on a monthly basis and the supporting calculations used to verify the VOC emission limitation in any 12 consecutive month period.

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

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

(a) The permittee shall submit an annual report to the Department which includes the following information for Source ID P109:

- (1) The amount of volatile organic compound (VOC) containing material utilized on a monthly basis.
- (2) The emission of VOC on a monthly basis and the supporting calculations used to verify the VOC emission limitation in any 12 consecutive month period.

(b) The annual report shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year).



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

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 004 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P109 is an Oil Impregnation systems which include the following:

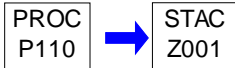
- (a) Two (2) Impregnators and Centrifuge units with vacuum pumps, one single and one double
- (b) One (1) Centrifuge

**SECTION D. Source Level Requirements**

Source ID: P110

Source Name: PARTS WASHER

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.****# 001 [25 Pa. Code §129.63]****Degreasing operations**

(a) The permittee shall keep records on the following information for each solvent degreasing station of Source ID P110:

- (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 mm of Hg at 68 degrees F.

(b) These records shall be kept for a minimum of five (5) years and 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.****# 002 [25 Pa. Code §129.63]****Degreasing operations**

Source ID P110 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.

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

Source ID P110 shall have the following:

- (1) A permanent conspicuous label summarizing these operating requirements:

(a) 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.

**SECTION D. Source Level Requirements**

(b) 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.

(c) Sponges, fabric, wood, leather, paper products, and other absorbent materials may not be cleaned in the cold cleaning machine.

(d) Air agitated solvent baths may not be used.

(e) Spills during solvent transfer and use of cold cleaning machine shall be cleaned up immediately.

(3) In addition, the label shall include the following discretionary good operating practices:

(a) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining.

(b) During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

(c) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

**VII. ADDITIONAL REQUIREMENTS.**

**# 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 vapor pressure of VOC containing solvent used in Source ID P110 shall be less than 1.0 millimeter of mercury (mm Hg) measured at 20 degrees Celsius (68 degrees Fahrenheit).

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P110 is a Parts Washer, Safety Kleen Model E-116, 16 gallon capacity

**SECTION D. Source Level Requirements**

Source ID: P111

Source Name: ELECTRIC SINTERING FURNACE 10

Source Capacity/Throughput:

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

The permittee shall not emit into the outdoor atmosphere particulate matter from Source ID P111 in a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

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

When using metal-containing lubricants in Source ID P111, the emission of particulate matter from the sintering furnace shall not equal or exceed 0.15 lb/hr (as determined by mass balance or stack test). For mass balance purposes, the following conversion factors are to be used:

Zinc Stearate to Zinc Oxide particulate matter = 0.129.

Lithium Stearate to Lithium Carbonate particulate matter = 0.15.

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

The permittee shall only use natural gas as fuel for the flame curtain of Source ID P111 or the afterburner (C111).

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

The permittee shall only use organic lubricants or lubricant blends which contain less than or equal to 1.25% organic lubricant (total by weight) in Source ID P111 (Furnace 10), as per the specifications provided by RFD 8997.

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

(a) The permittee shall keep records of the following for Source ID P111:

**SECTION D. Source Level Requirements**

- (1) The organic lubricant or lubricant blend content and formulation for each batch of powdered metals processed in the sintering furnace, to verify compliance with the organic and metallic lubrication limitations.
- (2) The percent of hydrogen (H<sub>2</sub>) contained in the sintering furnace atmosphere, at least once per product run.
- (3) The supporting calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation for any product processed with either Zinc Stearate or Lithium Stearate through the sintering furnace.
- (b) These records shall be maintained for at least five (5) years and 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.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID P111 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone or an afterburner.

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The sintering furnace atmosphere in Source ID P111 shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall not sinter metal parts that are treated with oil in Source ID P111.

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

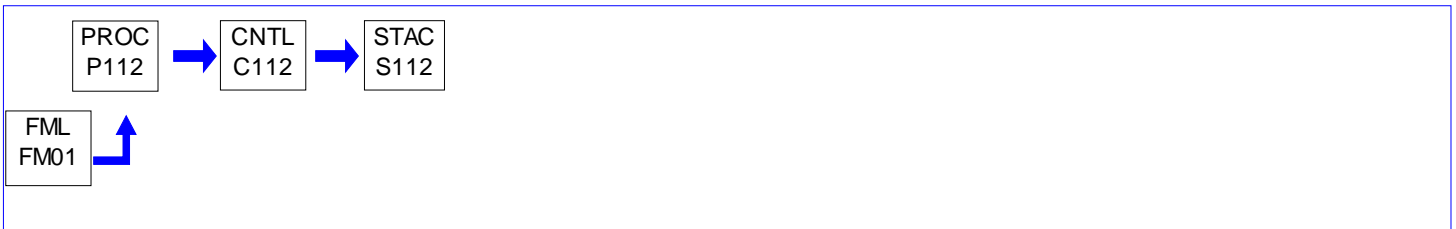
Source ID P111 is an electric sintering metal furnace, Abbott Furnace Company model #8ZSCR-24-240PH4-240HH4-VC-2150 with a 0.04 MMBtu/hr natural gas fired flame curtain and a Thermo-Stack Afterburner (C111).

**SECTION D. Source Level Requirements**

Source ID: P112

Source Name: ELECTRIC SINTERING FURNACE #12

Source Capacity/Throughput: 1,000.000 Lbs/HR POWDERED METAL

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not emit into the outdoor atmosphere particulate matter from Source ID P112 in a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

When using metal-containing lubricants in Source ID P112, the emission of particulate matter from the sintering furnace shall not equal or exceed 0.15 lb/hr (as determined by mass balance or stack test). For mass balance purposes, the following conversion factors are to be used:

Zinc Stearate to Zinc Oxide particulate matter = 0.129.

Lithium Stearate to Lithium Carbonate particulate matter = 0.15.

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel for the flame curtain of Source ID P112 or the afterburner (C112).

**Throughput Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use organic lubricants or lubricant blends which contain less than or equal to 1.25% organic lubricant (total by weight) in Source ID P112 (Furnace 12), as per the specifications provided by RFD 8997.

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

(a) The permittee shall keep records of the following for Source ID P112:

- (1) The organic lubricant or lubricant blend content and formulation for each batch of powdered metals processed in the sintering furnace, to verify compliance with the organic and metallic lubrication limitations.
- (2) The percent of hydrogen (H<sub>2</sub>) contained in the sintering furnace atmosphere, at least once per product run.
- (3) The supporting calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation for any product processed with either Zinc Stearate or Lithium Stearate through the sintering furnace.

(b) These records shall be maintained for at least five (5) years and 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.**

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

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

Source ID P112 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone or an afterburner.

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

The sintering furnace atmosphere in Source ID P112 shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

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

The permittee shall not sinter metal parts that are treated with oil in Source ID P112.

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

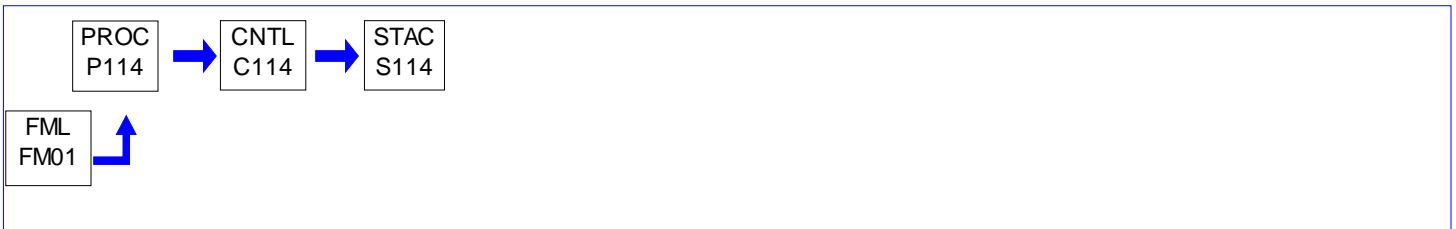
Source ID P112 consists of the electric sintering metal furnace 12 described as Abbott Furnace Company model ##8ZSCR-24-240PH4-240HH4-2150, with a 0.04 MMBtu/hr natural gas fired flame curtain and a Thermo-Stack Afterburner (C112), and determined to be exempt from plan approval based on RFDs 6688 and 8997.

**SECTION D. Source Level Requirements**

Source ID: P114

Source Name: ELECTRIC SINTERING FURNACE #14

Source Capacity/Throughput: 1,400.000 Lbs/HR POWDERED METAL

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not emit into the outdoor atmosphere particulate matter from Source ID P114 in a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

When using metal-containing lubricants in Source ID P114, the emission of particulate matter from the sintering furnace shall not equal or exceed 0.15 lb/hr (as determined by mass balance or stack test). For mass balance purposes, the following conversion factors are to be used:

Zinc Stearate to Zinc Oxide particulate matter = 0.129.

Lithium Stearate to Lithium Carbonate particulate matter = 0.15.

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel for the flame curtain of Source ID P114 or the afterburner (C114).

**Throughput Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use organic lubricants or lubricant blends which contain less than or equal to 1.25% organic lubricant (total by weight) in Source ID P114 (Furnace 14), as per the specifications provided by RFD 8997.

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

(a) The permittee shall keep records of the following for Source ID P114:

- (1) The organic lubricant or lubricant blend content and formulation for each batch of powdered metals processed in the sintering furnace, to verify compliance with the organic and metallic lubrication limitations.
- (2) The percent of hydrogen (H<sub>2</sub>) contained in the sintering furnace atmosphere, at least once per product run.
- (3) The supporting calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation for any product processed with either Zinc Stearate or Lithium Stearate through the sintering furnace.

(b) These records shall be maintained for at least five (5) years and 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.**

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

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

Source ID P114 shall be equipped with an operating flame curtain between the parts entry and the pre-heat zone or an afterburner.

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

The sintering furnace atmosphere in Source ID P114 shall contain hydrogen (H<sub>2</sub>) at 3% or greater, at all times, during the sintering process.

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

The permittee shall not sinter metal parts that are treated with oil in Source ID P114.

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

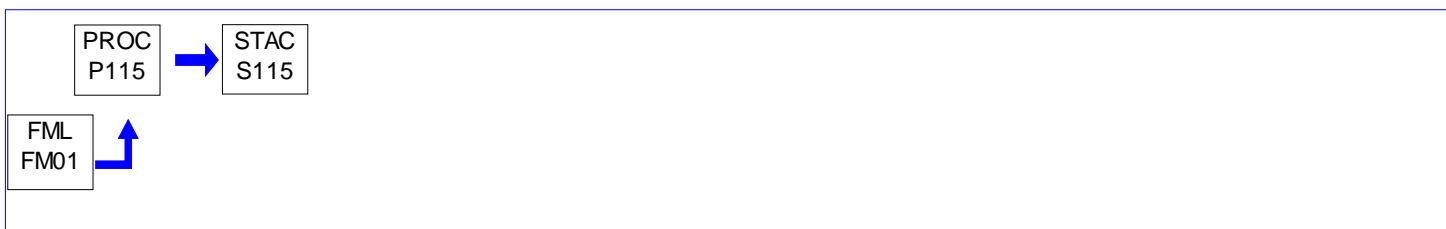
Source ID P114 consists of the electric sintering metal furnace 12 described as Abbott Furnace Company model ##8ZSCR-24-240PH4-240HH4-VC-2150, with a 0.04 MMBtu/hr natural gas fired flame curtain and a Thermo-Stack Afterburner (C114), and determined to be exempt from plan approval based on RFDs 7581, 8000 and 8897.

**SECTION D. Source Level Requirements**

Source ID: P115

Source Name: ELECTRIC SINTERING FURNACE #15

Source Capacity/Throughput: 600.000 Lbs/HR SINTERED PARTS

**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 any process not listed in subsection (b)(1) in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute. Allowable emissions under this subsection are graphically indicated in Appendix C.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Sources ID P115 shall only be used by the permittee to heat treat powdered metal material products that do not contain any lubricants or apply finish-heats to material already 'de-lubed' by another powdered metal sintering furnace.

**VII. ADDITIONAL REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Source ID P115 consists of the Abbott Furnace Company electric powder metal sintering pusher furnace (model MY) determined to qualify for plan approval exemption in accordance with RFD 8873.

**SECTION D. Source Level Requirements**

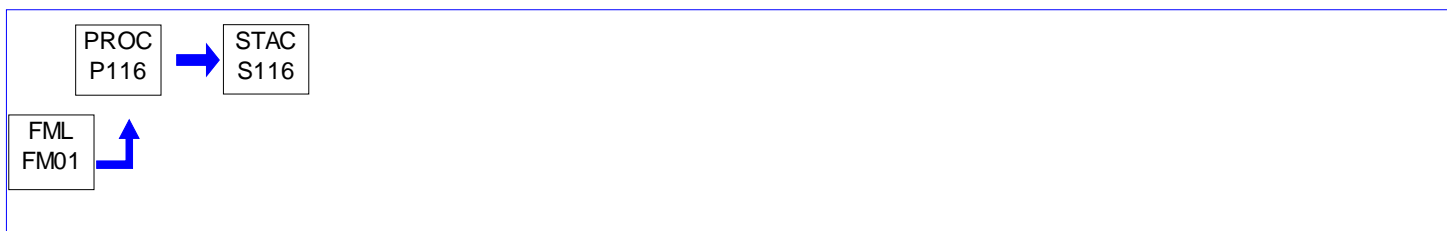
Source ID: P116

Source Name: ELECTRIC SINTERING FURNACE #16

Source Capacity/Throughput:

600.000 Lbs/HR

SINTERED PARTS

**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 any process not listed in subsection (b)(1) in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute. Allowable emissions under this subsection are graphically indicated in Appendix C.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

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

Sources ID P116 shall only be used by the permittee to heat treat powdered metal material products that do not contain any lubricants or apply finish-heats to material already 'de-lubed' by another powdered metal sintering furnace.

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

Source ID P116 consists of the Abbott Furnace Company electric powder metal sintering pusher furnace (model 5ZSCR-06P-48PH2-114HH3-2650) determined to qualify for plan approval exemption in accordance with RFD 9013.



**SECTION E. Source Group Restrictions.**

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

The following air contaminant sources are considered to be of minor significance to the Department and have been determined to be exempt from permitting requirements. However, this determination does not exempt the sources from compliance with all applicable air quality regulations specified in 25 Pa. Code Chapters 121-145:

- (a) one atmospheric generator rated at 1500 cfm with a rated heat input capacity of .26 MMBtu/hr for reaction and .20 MMBtu/hr for heating
- (b) one atmospheric generator rated at 750 cfm with a rated heat input capacity of .16 MMBtu/hr for reaction and .14 MMBtu/hr for heating
- (c) One (1) Nitrogen Gas Storage tank, 11,020 gallons
- (d) One (1) Hydrogen Gas storage tank, 5,670 gallons
- (e) one (1) Abbott Furnace Company model #6ZSCR-16-300HH6-24 sintering furnace (approved via RFD #4884 on January 12, 2015)
- (f) one (1) Abbott Furnace Company model #344-48 sintering furnace used for R&D purposes (originally constructed in 2015)
- (g) One (1) Space heater at Engineering/QC described as Central Environmental Systems, Model P-HDD20N11501B, with 0.125 MMBtu/hr rated heat input; One (1) Space Heater at Main Office described as American Standard, Model YSC060A4EHA15D, with 0.13 MMBtu/hr rated heat input; One (1) Space Heater at Raw Material (on Plant Floor) described as Rencor, Model F-400, with 0.40 MMBtu/hr rated heat input; Three (3) Space Heaters at Main Office, Shipping, and Warehouse, each described as Modine, Model PU 250SE013, with 0.25 MMBtu/hr rated heat input (each); Two (2) Space Heaters at Molding Floor, each described as Reznor, Model XL105-3, with 0.105 MMBtu/hr rated heat input (each); Two (2) Space Heaters at Big Mold Press Addition, each described as Reznor, Model UEAS130-S, with 0.131 MMBtu/hr rated heat input (each); Two (2) Space Heaters at 2018 Addition, each described as Reznor, Model UEAS130-S, with 0.131 MMBtu/hr rated heat input (each); Two (2) Space Heaters at 2018 Addition, each described as FOAN, Model FOAN-300-1-1-1, with 0.240 MMBtu/hr rated heat input (each).



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

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