



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

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date:	December 13, 2021	Effective Date:	November 8, 2022
Revision Date:	November 8, 2022	Expiration Date:	December 12, 2026
Revision Type:	Amendment		

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: 17-00050

Natural Minor

Federal Tax Id - Plant Code: 38-3354796-4

Owner Information

Name: GKN SINTER METALS LLC
Mailing Address: PO BOX 1047
DUBOIS, PA 15801-1047

Plant Information

Plant: GKN SINTER METALS/DUBOIS PLT 4
Location: 17 Clearfield County 17001 DuBois City
SIC Code: 3499 Manufacturing - Fabricated Metal Products, Nec

Responsible Official

Name: CARLA WEGEMER
Title: PLANT MANAGER
Phone: (814) 781 - 2075 Email: Carla.Wegemer@gknpm.com

Permit Contact Person

Name: TIM CARLSON
Title: HSE SPC
Phone: (814) 372 - 7518 Email: Tim.Carlson@gknpm.com

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



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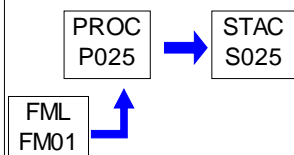
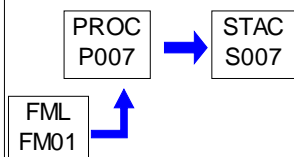
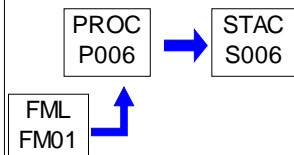
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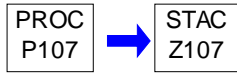
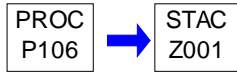
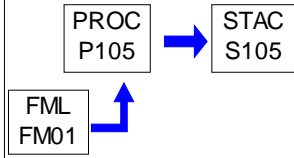
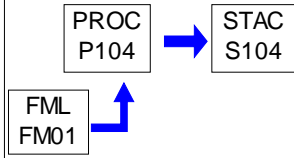
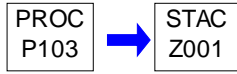
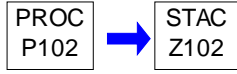
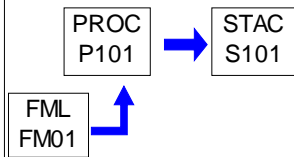
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
P006	ELECTRIC POWDERED METAL SINTERING FURNACE 6 (F6)	650.000 Lbs/HR	POWDERED METAL
P007	ELECTRIC POWDERED METAL SINTERING FURNACE 7 (F7)	650.000 Lbs/HR	POWDERED METAL
P025	ELECTRIC POWDERED METAL SINTERING FURNACE 25 (F25)	490.000 Lbs/HR	POWDERED METAL
P101	TWO (2) SINTERING FURNACES (F22 & F24)	1,500.000 Lbs/HR	POWDERED METAL
P102	FOUR (4) OIL IMPREGNATORS		
P103	AQUEOUS DEGREASING OPERATIONS		
P104	ABBOTT SINTERING FURNACE F18	750.000 Lbs/HR	POWDERED METAL
P105	TWO SINTERITE SINTERING FURNACES (F19 & F20)	1,500.000 Lbs/HR	POWDERED METAL
P106	STOELTING DEGREASER		
P107	RUST PREVENTATIVE PROCESS		
FM01	NATURAL GAS LINE		
S006	STACK TO F6		
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S025	STACK TO F25		
S101	STACKS FOR FURNACE 22 AND 24		
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Z001	DEGREASING EMISSIONS		
Z102	IMPREGNATORS EMISSIONS		
Z107	FUGITIVES		

PERMIT MAPS

**PERMIT MAPS**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

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

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 in Condition #001(1-7) 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.**

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.

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

(a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. 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.

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, CO₂, O₂ and N₂), static and barometric pressures,
- (5) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met,
- (6) Laboratory procedures and results,
- (7) Calculated results.

III. MONITORING REQUIREMENTS.**# 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 qualified, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

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

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

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

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

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

[Authority is also derived from 25 Pa. Code section 127.442]

(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) Except as reported to the Department in accordance with 25 Pa. Code Chapter 139 and the Department's Continuous Source Monitoring Manual, 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.

**SECTION C. Site Level Requirements**

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

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

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

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

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.**# 015 [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)).

016 [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.

017 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material at the 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.

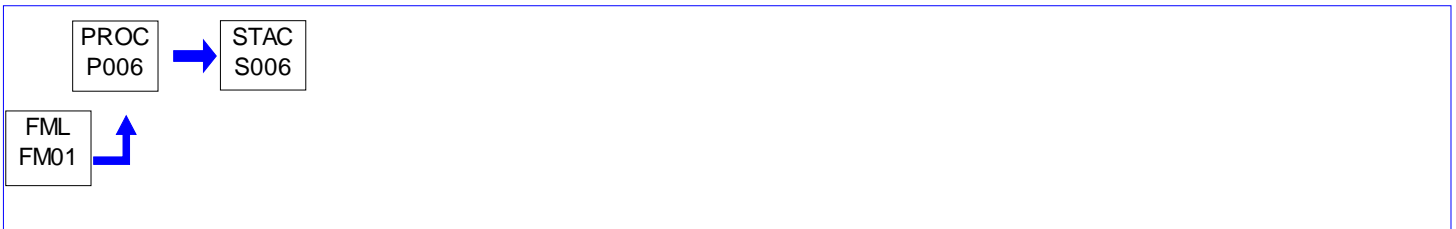
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: P006

Source Name: ELECTRIC POWDERED METAL SINTERING FURNACE 6 (F6)

Source Capacity/Throughput: 650.000 Lbs/HR POWDERED METAL

**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 furnace F6, designated as Source ID P006 herein, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from furnace F6, designated as Source ID P006 herein, in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for the flame curtain in furnace F6 (Source ID P006).

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 0.75% organic lubricant (by weight) within furnace F6 (Source ID P006).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not sinter metal parts that are treated with oil by furnace F6 (Source ID P006).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If the permittee uses metal-containing lubricants within furnace F6 (Source ID P006), the emission of particulate matter from the source 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:

(1) Zinc Stearate to Zinc Oxide particulate matter = 0.129.

(2) Lithium Stearate to Lithium Carbonate particulate matter = 0.15.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The production rate of furnace F6 (Source ID P006) shall not exceed 650 pounds of sintered metal product per hour.

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

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

III. MONITORING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Furnace F6 (Source ID P006) shall have instrumentation to monitor the furnace temperature on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records (hand-written logs and/or electronic records) of the information pertaining to operation of Source ID P006, as specified below:

- 1) The date of each furnace production or run and the identity of powdered metal batch or mix used;
- 2) The furnace throughput (pounds powdered metal per hour);
- 3) The percent hydrogen in furnace atmosphere; and
- 4) The furnace temperatures.

(b) The records, including the supporting information, shall be maintained and made available, upon request by the Department, as required in accordance with the recordkeeping requirements within #020 in section B herein.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the total amount of powdered metal products (pounds or tons) processed by furnace F6/Source ID P006 and the number of hours of operation on a monthly basis.

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

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If the permittee uses metal-containing lubricants in Source ID P006, the permittee shall keep records, such as the supporting furnace operating data and calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation, in accordance with recordkeeping requirements in #020 in section B herein.

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.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No stack to furnace F6 (Source ID P006) shall be cleaned by using a high temperature cleanup ("burn out") procedure.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

**SECTION D. Source Level Requirements**

Furnace F6 (Source ID P006) shall maintain an operating flame curtain, at all times, between the parts entry and pre-heat zone of the furnace.

VII. ADDITIONAL REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The furnace atmosphere of furnace F6 (Source ID P006) shall contain hydrogen (H₂) at 3% or greater at all times during the sintering process.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

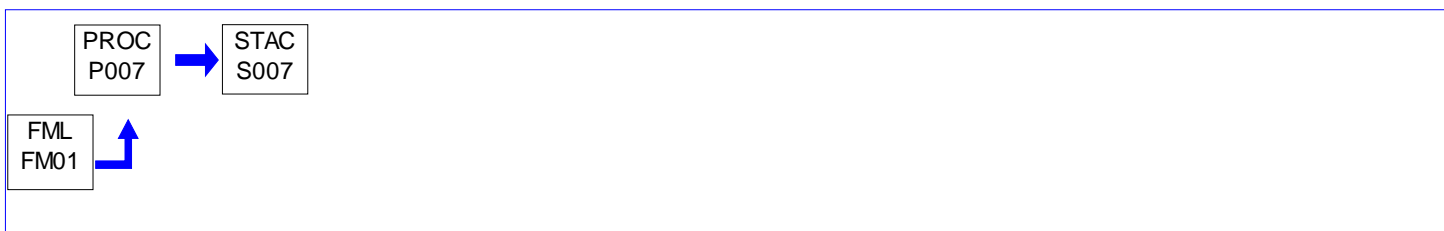
Source ID P006 consists of a Sinterite model #18E-7Z electric powdered metal sintering furnace designated by the permittee as Furnace F6 at the facility. This furnace installation, along with F7, was approved via hardcopy RFD on December 11, 2019.

**SECTION D. Source Level Requirements**

Source ID: P007

Source Name: ELECTRIC POWDERED METAL SINTERING FURNACE 7 (F7)

Source Capacity/Throughput: 650.000 Lbs/HR POWDERED METAL

**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 furnace F7, designated as Source ID P007 herein, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from furnace F7, designated as Source ID P007 herein, in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for the flame curtain in furnace F7 (Source ID P007).

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 0.75% organic lubricant (by weight) by furnace F7 (Source ID P007).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not sinter metal parts that are treated with oil by furnace F7 (Source ID P007).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If the permittee uses metal-containing lubricants in furnace F7 (Source ID P007), the emission of particulate matter from the source 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:

(1) Zinc Stearate to Zinc Oxide particulate matter = 0.129.

(2) Lithium Stearate to Lithium Carbonate particulate matter = 0.15.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The production rate of furnace F7 (Source ID P007) shall not exceed 650 pounds of sintered metal product per hour.

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

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

III. MONITORING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Furnace F7 (Source ID P007) shall have instrumentation to monitor the furnace temperature on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records (hand-written logs and/or electronic records) of the information pertaining to operation of Source ID P007, as specified below:

- 1) The date of each furnace production or run and the identity of powdered metal batch or mix used;
- 2) The furnace throughput (pounds powdered metal per hour);
- 3) The percent hydrogen in furnace atmosphere; and
- 4) The furnace temperatures.

(b) The records, including the supporting information, shall be maintained and made available, upon request by the Department, as required in accordance with the recordkeeping requirements within #020 in section B herein.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the total amount of powdered metal products (pounds or tons) processed by furnace F7/Source ID P007 and the number of hours of operation on a monthly basis.

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

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If the permittee uses metal-containing lubricants in Source ID P007, the permittee shall keep records, such as the supporting furnace operating data and calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation, in accordance with recordkeeping requirements in #020 in section B herein.

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.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No stack of Furnace F7 (Source ID P007) shall be cleaned by using a high temperature cleanup ("burn out") procedure.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Furnace F7 (Source ID P007) shall maintain an operating flame curtain, at all times, between the parts entry and pre-heat

**SECTION D. Source Level Requirements**

zone of the furnace.

VII. ADDITIONAL REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The furnace atmosphere of furnace F7 (Source ID P007) shall contain hydrogen (H₂) at 3% or greater at all times during the sintering process. This furnace installation, along with F6, was approved via hardcopy RFD on December 11, 2019.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

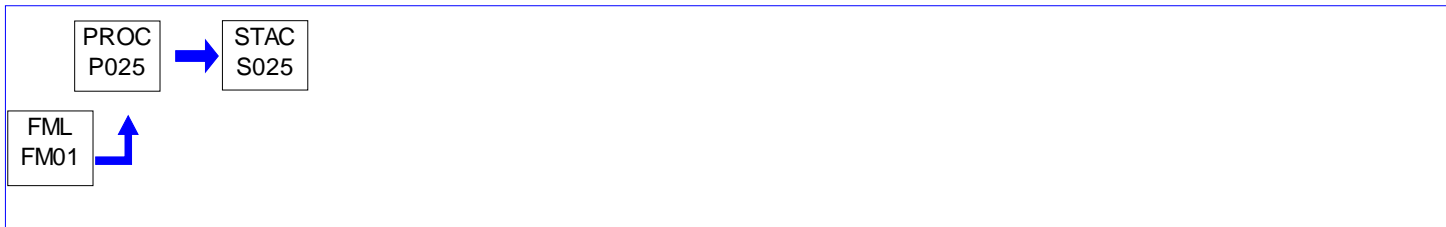
Source ID P007 consists of a Sinterite model #18E-7Z electric powdered metal sintering furnace designated as Furnace F7 at the facility.

**SECTION D. Source Level Requirements**

Source ID: P025

Source Name: ELECTRIC POWDERED METAL SINTERING FURNACE 25 (F25)

Source Capacity/Throughput: 490.000 Lbs/HR POWDERED METAL

**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 furnace 25 Source ID P025 in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from furnace 25 Source ID P025 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for the flame curtain in furnace F25 (Source ID P025).

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 0.75% organic lubricant (by weight) in furnace F25 (Source ID P025).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not sinter metal parts that are treated with oil by furnace F25 (Source ID P025).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If the permittee uses metal-containing lubricants within furnace F25 (Source ID P025), the emission of particulate matter from the source 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:

(1) Zinc Stearate to Zinc Oxide particulate matter = 0.129.

(2) Lithium Stearate to Lithium Carbonate particulate matter = 0.15.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The production rate of the sintering furnace F25 shall not exceed 490 pounds of sintered metal product per hour.

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

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

III. MONITORING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Furnace F25 (Source ID P025) shall have instrumentation to monitor the furnace temperature on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records (hand-written logs and/or electronic records) of the information pertaining to operation of Source ID P025, as specified below:

- 1) The date of each furnace production or run and the identity of powdered metal batch or mix used;
- 2) The furnace throughput (pounds powdered metal per hour);
- 3) The percent hydrogen in furnace atmosphere; and
- 4) The furnace temperatures.

(b) The records, including the supporting information, shall be maintained and made available, upon request by the Department, as required in accordance with the recordkeeping requirements within #020 in section B herein.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the total amount of powdered metal products (pounds or tons) processed by furnace F25/Source ID P025 and the number of hours of operation on a monthly basis.

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

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If the permittee uses metal-containing lubricants in Source ID P025, the permittee shall keep records, such as the supporting furnace operating data and calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation, in accordance with recordkeeping requirements in #020 in section B herein.

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.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No stack of Furnace F25 (Source ID P025) shall be cleaned by using a high temperature cleanup ("burn out") procedure.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Furnace F25 (Source ID P025) shall maintain an operating flame curtain, at all times, between the parts entry and pre-heat

**SECTION D. Source Level Requirements**

zone of the furnace.

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

The furnace atmosphere of Furnace F25 (Source ID P025) shall contain hydrogen (H₂) at 3% or greater at all times during the sintering process. This furnace installation was approved via RFD ID 9302 on July 28, 2021.

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

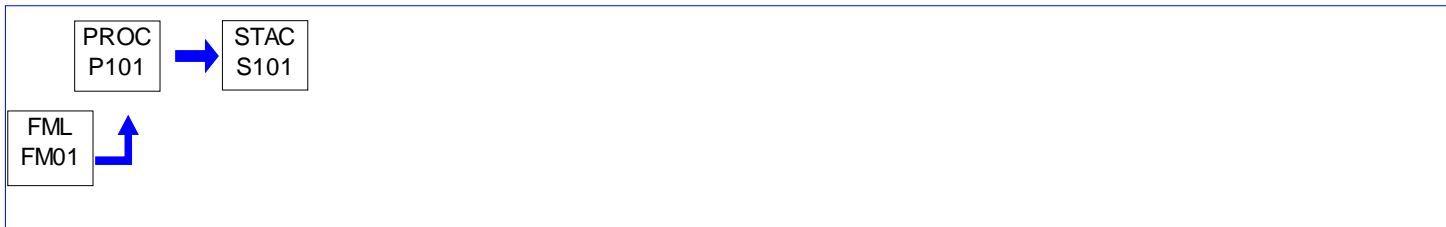
Source ID P025 consists of a Abbott model #5ZSCR-16-120PH2-168HH3-2400 electric powdered metal sintering furnace designated as Furnace F25 at the facility.

**SECTION D. Source Level Requirements**

Source ID: P101

Source Name: TWO (2) SINTERING FURNACES (F22 & F24)

Source Capacity/Throughput: 1,500.000 Lbs/HR POWDERED METAL

**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 each sintering furnace of Source ID P101, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from each sintering furnace of Source ID P101 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for the flame curtain in each sintering furnace of Source ID P101.

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 0.75% organic lubricant (by weight) in each sintering furnace of Source ID P101.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not use Source ID P101 to process parts that are treated with oil.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If the permittee uses metal-containing lubricants by Source ID P101, the emission of particulate matter from the source 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:

(1) Zinc Stearate to Zinc Oxide particulate matter = 0.129.

(2) Lithium Stearate to Lithium Carbonate particulate matter = 0.15.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The production rate of the sintering furnace F-24 shall not exceed 750 pounds of sintered metal product per hour.

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

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

III. MONITORING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each sintering furnace of Source ID P101 shall have instrumentation to monitor the furnace temperature on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records (hand-written logs and/or electronic records) of the information pertaining to operation of each Source ID P101, as specified below:

- 1) The date of each furnace production or run and the identity of powdered metal batch or mix used;
- 2) The furnace throughput (pounds powdered metal per hour);
- 3) The percent hydrogen in furnace atmosphere; and
- 4) The furnace temperatures.

(b) The records, including the supporting information, shall be maintained and made available, upon request by the Department, as required in accordance with the recordkeeping requirements within #020 in section B herein.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the total amount of powdered metal products (pounds or tons) processed by each furnace F22 and F24 (Sources ID P101) and each furnace number of hours of operation on a monthly basis.

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

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If the permittee uses metal-containing lubricants in any Source ID P101, the permittee shall keep records, such as the supporting furnace operating data and calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation, in accordance with recordkeeping requirements in #020 in section B herein.

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.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each sintering furnace stack of Source ID P101 shall not be cleaned by using a high temperature cleanup ("burn out") procedure.

**SECTION D. Source Level Requirements****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Each sintering furnace of Source ID P101 shall maintain an operating flame curtain, at all times, between the parts entry and pre-heat zone of the furnace.

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

The furnace atmosphere, in each sintering furnace of Source ID P101, shall contain hydrogen (H₂) at 3% or greater, at all times, during the sintering process.

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

Source ID P101 consists of two (2) electric powdered metal sintering furnaces, each with a capacity throughput equal to approximately 750 lb/hr:

One Abbott model 4ZSCR-18-72PH1-144HH3-2200 with serial #AB2-2065-FSM-0187 (F-22).

One Abbott furnace 8ZSCR-24-216PH4-216HH4-VC-2150 with serial # AB795-25259-GKNSMD-0316 (F-24). Modification to F24 to increase its capacity from 400 to 750 pound powdered metal parts/hour was approved via RFD ID 9389 on October 1, 2021.

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

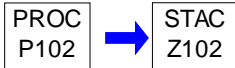
The furnace temperature in each sintering furnace, except F-24 of Source ID P101 shall not exceed 2,100 degrees Fahrenheit, at any time. For furnace F-24, the preheat zone temperature shall be maintained at a minimum of 1,500 degrees F at all times when the sintering furnace is processing parts. In addition, for furnace F-24, the high heat zone temperature shall be maintained at a minimum of 2,000 degrees F at all times when the sintering furnace is processing parts.

**SECTION D. Source Level Requirements**

Source ID: P102

Source Name: FOUR (4) OIL IMPREGNATORS

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 §127.441]****Operating permit terms and conditions.**

(a) The permittee shall keep records of Certified Product Data Sheets (CPDSs) or Material Safety Data Sheets (MSDSs) that identify the volatile organic compound and hazardous material content for the oils used in each unit of Source ID P102.

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

Source ID P102 consists of four (4) Oil Impregnation systems which include the following:

(a) Two (2) Single Impregnators and Centrifuge units with vacuum pumps

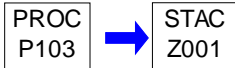
(b) Two (2) Dual Impregnators and Centrifuge units with vacuum pumps

**SECTION D. Source Level Requirements**

Source ID: P103

Source Name: AQUEOUS DEGREASING OPERATIONS

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 §127.441]****Operating permit terms and conditions.**

The permittee shall maintain and make available, upon request by the Department, records to verify compliance with the work practice requirement and to verify the estimated annual average consumption rate (gallons/year) of cleaning solution used by Source ID P103. All data and other supporting information used by the permittee should follow the applicable requirements pertaining to recordkeeping, as specified in #020 section B herein.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall not use any parts cleaning solution in Source ID P103 other than ArmaKleen 4 in 1 Cleaner and/or other products with equivalent (or less) emissions potential as determined by the Department.

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

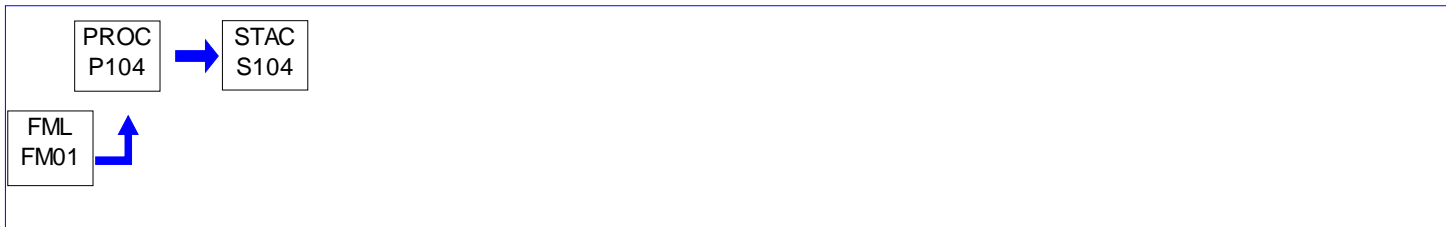
Source ID P103 is comprised of two (2) aqueous parts cleaning operations: one unit is located in Maintenance and the other one is located in Tool Crib.

**SECTION D. Source Level Requirements**

Source ID: P104

Source Name: ABBOTT SINTERING FURNACE F18

Source Capacity/Throughput: 750.000 Lbs/HR POWDERED METAL

**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 furnace Source ID P104 in a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from furnace Source ID P104 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use organic lubricants that contain equal to or less than 0.75% organic lubricants by weight.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records (hand-written logs and/or electronic records) of the information pertaining to operation of Source ID P104, as specified below:

- 1) The date of each furnace production or run and the identity of powdered metal batch or mix used;
- 2) The furnace throughput (pounds powdered metal per hour);
- 3) The percent hydrogen in furnace atmosphere; and

**SECTION D. Source Level Requirements**

4) The furnace temperatures.

(b) The records, including the supporting information, shall be maintained and made available, upon request by the Department, as required in accordance with the recordkeeping requirements within #020 in section B herein.

(c) If the permittee uses metal-containing lubricants in Source ID P104, the permittee shall keep records, such as the supporting furnace operating data and calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation, in accordance with recordkeeping requirements in #020 in section B herein.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the total amount of powdered metal products (pounds or tons) processed by furnace Source ID P104 and the number of hours of operation on a monthly basis.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The furnace shall maintain an operating flame curtain between the part entry and pre-heat zone. In the absence of an operating flame curtain, the furnace must operate an afterburner.

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The furnace atmosphere shall contain hydrogen (H₂) at 3% or greater at all times during the sintering process.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P104 consists of one (1) high temperature electric Abbott Furnace Company, serial number #AB554-16583-GKNSMS-1204 sintering furnace.

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: TWO SINTERITE SINTERING FURNACES (F19 & F20)

Source Capacity/Throughput: 1,500.000 Lbs/HR POWDERED METAL

**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 each furnace 19 and 20 (Sources ID P105) in a manner that the concentration in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each furnace 19 and 20 (Sources ID P105) in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use organic lubricants that contain equal to or less than 0.75% organic lubricants by weight.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records (hand-written logs and/or electronic records) of the information pertaining to operation of each Source ID P105, as specified below:

- 1) The date of each furnace production or run and the identity of powdered metal batch or mix used;
- 2) The furnace throughput (pounds powdered metal per hour);
- 3) The percent hydrogen in furnace atmosphere; and

**SECTION D. Source Level Requirements**

4) The furnace temperatures.

(b) The records, including the supporting information, shall be maintained and made available, upon request by the Department, as required in accordance with the recordkeeping requirements within #020 in section B herein.

(c) If the permittee uses metal-containing lubricants in any Source ID P105, the permittee shall keep records, such as the supporting furnace operating data and calculations used to verify compliance with the 0.15 lb/hr particulate matter emission limitation, in accordance with recordkeeping requirements in #020 in section B herein.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the total amount of powdered metal products (pounds or tons) processed by each furnace 19 and 20 (Sources ID P105) and each furnace number of hours of operation on a monthly basis.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The furnace shall maintain an operating flame curtain between the part entry and pre-heat zone. In the absence of an operating flame curtain, the furnace must operate an afterburner.

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The furnace atmosphere shall contain hydrogen (H₂) at 3% or greater at all times during the sintering process.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

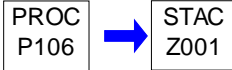
Source ID P105 consists of two (2) electrically operated Sinterite sintering furnaces (numbered as F-19 and F-20), each with a capacity throughput equal to approximately 750 lb/hr.

**SECTION D. Source Level Requirements**

Source ID: P106

Source Name: STOELTING DEGREASER

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total potential volatile organic compounds (VOCs) emissions from the degreaser of Source ID P106 shall not exceed 0.11 tons in any 12 consecutive month period.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total usage of CIMSTAR® 60C-HFP (or equivalent) with FACT solvent in the degreaser of Source ID P106 shall not exceed 313 gallons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the supporting calculations for volatile organic compounds (VOCs) emissions from the degreaser of Source ID P106 and shall maintain documentation from the supplier/manufacturer (e.g., certified product data sheets) that certifies the VOC and individual HAP content of the solvent used in the degreaser of Source ID P106.

(b) The permittee shall keep records of the identity and amount of the solvent used in the degreaser on a monthly basis and shall verify compliance with the total solvent usage limitations in any 12 consecutive month period.

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

V. REPORTING REQUIREMENTS.

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

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

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.**

The permittee shall only use METAL MEDIC 7383 and/or similar non-VOCs and non-HAPs based rust inhibitor solvent in the degreaser of Source ID P106 as determined by the Department.

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

The degreaser of Source ID P106 shall be operated in accordance with the RFD and supplemental materials submitted by GKN Sinter Metals dated April 23, 2015 and shall be in compliance with all applicable requirements of 25 Pa. Code Chapters 121-145.

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

Source ID P106 is a Stoelting manufactured model Lewis Nearfield® Cleaning System inline type ultrasonic degreaser.

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

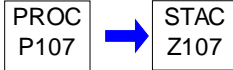
Source ID P106 is subject to requirements of 25 Pa. Code Section 129.63(c). The permittee shall comply with all applicable requirements of 25 Pa. Code Section 129.63 for in-line type degreaser.

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: RUST PREVENTATIVE PROCESS

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total potential volatile organic compounds (VOCs) emissions from Source ID P107 shall not exceed 1.55 tons in any 12 consecutive month period.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total usage of Rustilo DW 4130 for Source ID P107 shall not exceed 400 gallons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the supporting calculations for volatile organic compounds (VOCs) emissions from Source ID P107 and shall maintain documentation from the supplier/manufacture (e.g., certified product data sheets) that certifies the VOC and individual HAP content of the solvent used in the degreaser of Source ID P107.

(b) The permittee shall keep records of the identity and amount of the rust preventative product(s) used on a monthly basis and shall verify compliance with the total usage limitation in any 12 consecutive month period.

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

V. REPORTING REQUIREMENTS.

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

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

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.**

The permittee shall only use Rustilo DW 4130 and/or equivalent products for Source ID P107 as determined by the Department.

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

Source ID P107 is the Rust Preventative and Packing process submitted and constructed at facility pursuant to notification received September 24, 2018, regarding plan approval exemption source category no. 31 of 25 Pa. Code section 127.14(a)(8).



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 the Department to be insignificant with regards to air contaminant emissions and have been determined to be exempt from permitting requirements. However, this determination does not exempt these sources from compliance with all applicable State and Federal regulations and all applicable air quality regulations specified in 25 Pa. Code Chapters 121 through 143:

- Two (2) Cooling Towers, Baltimore Air Cooling Tower, 175 gal/hr
- One (1) draw furnace (D-1: Abbot Model 2ZCON-24-240DF2-600)
- One (1) Boiler, Peerless Pinnacle 0.14 MMBtu per hour;
- One (1) Boiler, Raypack, 0.42 MMBtu/hr rated heat input;
- One (1) Water Heater, Lochnavar, Model BT80, 0.075 MMBtu/hr rated heat input;
- One (1) Water Heater, AO Smith, Model BT65930A, 0.50 MMBtu/hr rated heat input;
- Six (6) Space Heaters, Powermatic, each rated equal 0.30 MMBtu/hr heat input; and
- Four (4) Roof top Heaters, two Carrier model 48HJE008-631 units (C21 and C2 rated for 0.180 MMBtu/hr heat input) and two Carrier model 48HJE007-631 units (C11 and C1 rated for 0.115 MMBtu/hr heat input).



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