



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Site Inventory List

Section B. General State Only Requirements

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

Section C. Site Level State Only Requirements

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

Section D. Source Level State Only Requirements

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

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

Section E. Source Group Restrictions

- E-I: Restrictions



SECTION A. Table of Contents

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

Section F. Alternative Operating Scenario(s)

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

Section G. Emission Restriction Summary

Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
035	SUPERIOR 6 (DEPT 327)	21.600	MMBTU/HR
036	SUPERIOR 5 (DEPT 327)	26.000	MMBTU/HR
037	BOILER 7 (DEPT 327, BLDG 10)	29.200	MMBTU/HR
041	BOILER 9 (DEPT 327, BUILDING 25)	32.500	MMBTU/HR
042	BOILER 10 (DEPT 327, BUILDING 25)	30.500	MMBTU/HR
043	BOILER 11	33.600	MMBTU/HR
044	TEMPORARY BOILER	27.190	MMBTU/HR
099	COMBUST SRCS NOT INDIVIDUALLY LISTED		
P102	TUNGSTEN CARBIDE POWDER PROCESSING		
P103	DEPT 340 NH3 STRIPPER PRODUCT TANKS		
P111	TUNGSTEN CARBIDE MILLING & DRYING OPERATIONS		
P112	TUNGSTEN CARBIDE EQUIPMENT		
P117	MULTIPLE HEARTH FURNACE		
P119	MATERIAL HANDLING (MHF)		
P131	5 AMMONIUM SOLUTION STORAGE TANKS		
P145	SCRAP HANDLING EQUIPMENT		
P150	AMT OVEN #2		
P154	SPRAY DRYING AM-MET-TUNG.		
P163	FRYE WHEELABRATOR		
P210	DEPT 046: TUNGSTEN ORE GRINDER AND DIGESTER TANK		
P211	DEPT 046: APT PRODUCTION (ADDITIONAL EQUIP)		
P212	DEPT 046: SULFIDE TREATMENT/TUNGSTEN REFINING PROCESS		
P213	DEPT 046: AMMONIUM PARATUNGSTATE CRYSTALLIZATION PROCESS		
P214	BICKLEY SINTER FURNACE		
P215	CALCINER #1		
P216	CALCINER #2		
P217	CALCINER #3		
P218	CALCINER #4		
P219	CALCINER #5		
P220	CALCINER #6		
P221	CALCINER #7		
P222	CALCINER #8		
P226	D-4 RE-SLURRY TANK		
P227	THERMAL SPRAY AND ENERGY POWDER DEPARTMENT		
P228	METAL PILOT PLANT, BLD 22		
P299	TUNGSTEN OXIDE BLENDING EQUIPMENT		
P300	TUNGSTEN/NICKEL POWDER SIFTING & GRANULATING EQUIP		
P310	GRADE MIX POWDERS HANDLING EQUIP ASSOC W		

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
	SPRAY DRYER #1 WEST		
P311	SPRAY DRYER #2		
P312	SPRAY DRYER #1		
P313	GRADE POWDERS EQUIPMENT ASSOC W SPRAY DRYER #2 EAST		
P315	APT CALCINER #1		
P317	APT CALCINER #3		
P318	APT CALCINER #4		
P320	AMMONIA BULK STORAGE TANKS & ASSOCIATED UNLOADING OPERATIONS		
P321	BULK STORAGE TANKS AND ASSOCIATED LOAD OUT OPERATIONS (2)		
P322	APT CALCINER #5		
P324	APT CALCINER #6		
P331	R&D SPRAY DRYER		
P350	TUNGSTEN CARBIDE AND MICRO-GRAIN TUNGSTEN CARBIDE EQUIPMENT		
P351	TUNGSTEN CARBIDE AND MICRO-GRAIN TUNGSTEN CARBIDE EQUIPMENT		
P352	TUNGSTEN CARBIDE AND MICRO-GRAIN TUNGSTEN CARBIDE EQUIPMENT		
P354	TUNGSTEN CARBIDE JET MILL		
P500	S-7 PERRY EVAP.		
P506	BLDG 10 DIESEL GENERATOR		
P507	BLDG 25 DIESEL GENERATOR		
P508	WELL #11 DIESEL GENERATOR		
P510	AMMONIA ABSORBER		
P512	BUILDING 25 GENERATOR #83		
P513	BUILDING 20 GENERATOR #81		
P514	IT GENERATOR #82		
P519	GTP PARTS AREA 1		
P520	GTP PARTS AREA 2		
FM01	NATURAL GAS LINE		
FM02	PROPANE		
S035	BOILER STACK		
S036	BOILER STACK		
S037	BOILER 7 STACK		
S041	BOILER 9 STACK		
S042	BOILER 10 STACK		
S043	BOILER 11 STACK		
S044	TEMPORARY BOILER STACK		
S099	COMBUSTION UNITS STACKS		
S102	FILTER STACK		
S103	CEILCOTE SPT-136 STACK		

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S111	VIC STACK		
S112	CAMBRIDGE STACK		
S117	MHF STACK		
S119	MHF AREA DUST COLLECTOR STACK		
S131	FILTER STACK		
S145	FILTER STACK		
S150	AMT OVEN #2 BIONOMICS SCRUBBER STACK		
S154	MIKROPUL STACK		
S163	WHEELABRATOR DC STACK		
S210	STACK		
S211	SCRUBBER STACK		
S212	STACK		
S213	STACK		
S214	BICKLEY SINTER FURNACE STACK		
S215	CALCINER #1 STACK		
S216	CALCINER #2 STACK		
S217	CALCINER #3 STACK		
S218	CALCINER #4 STACK		
S219	CALCINER #5 STACK		
S220	CALCINER #6 STACK		
S221	CALCINER #7 STACK		
S222B	CALCINER #8 STACK		
S222D	SCRAP PROCESSING AREA STACK		
S226	STACK		
S227B	FARR/TENKAY STACK		
S228	FULLER STACK		
S299	FILTER STACK		
S300	PANGBORN STACK		
S310	STACK		
S311	STACK		
S312	STACK		
S313	STACK		
S315	SCRUBBER STACK		
S317	SCRUBBER STACK		
S318	SCRUBBER STACK		
S320	HEIL STACK		
S321	FILTER STACK		
S322	SCRUBBER STACK		
S324	CALCINER #6 STACK		
S331	R&D SPRAY DRYER STACK		
S350	FARR TENKAY (28N) STACK		

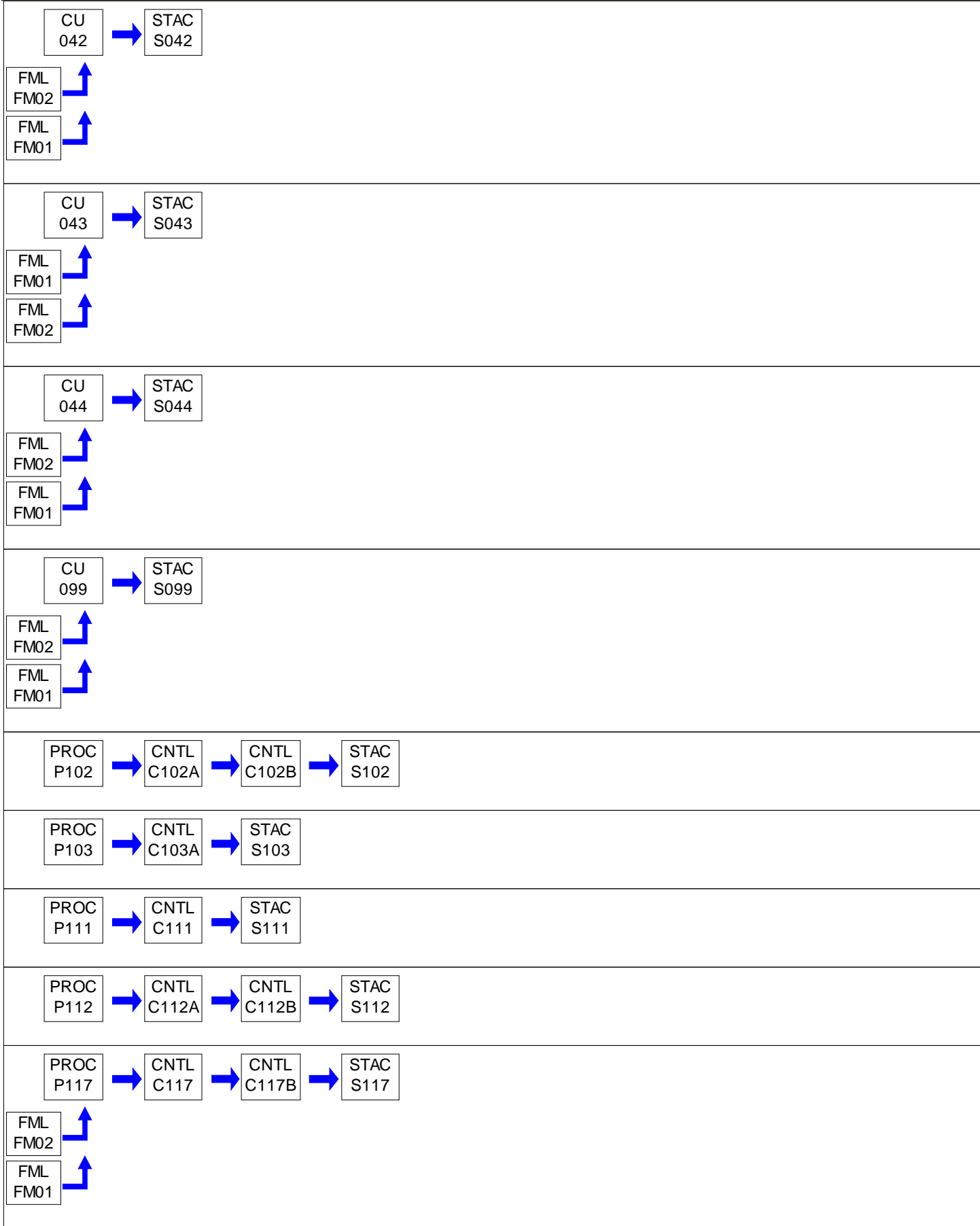
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S351	FARR TENKAY (28J) STACK		
S352	TORIT STACK		
S354	FILTER STACK		
S500	STACK		
S506	GENERATOR STACK		
S507	GENERATOR STACK		
S508	GENERATOR STACK		
S510	STACK		
S512	GENERATOR #83 STACK		
S513	GENERATOR #81 STACK		
S514	GENERATOR #82 STACK		
S519	GTP PARTS AREA 1 STACK		
S520	GTP PARTS AREA 2 STACK		

PERMIT MAPS

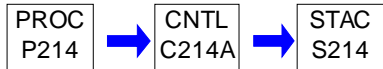
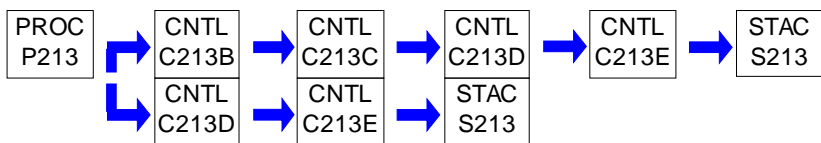
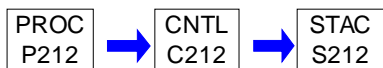
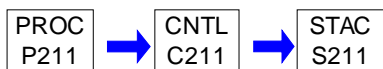
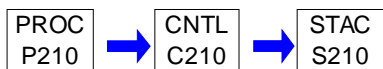
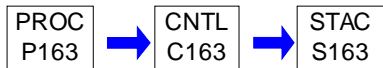
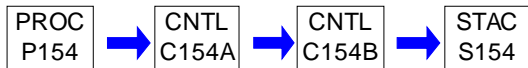
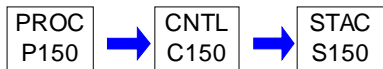
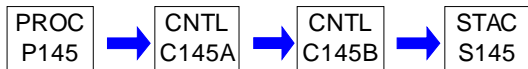


PERMIT MAPS



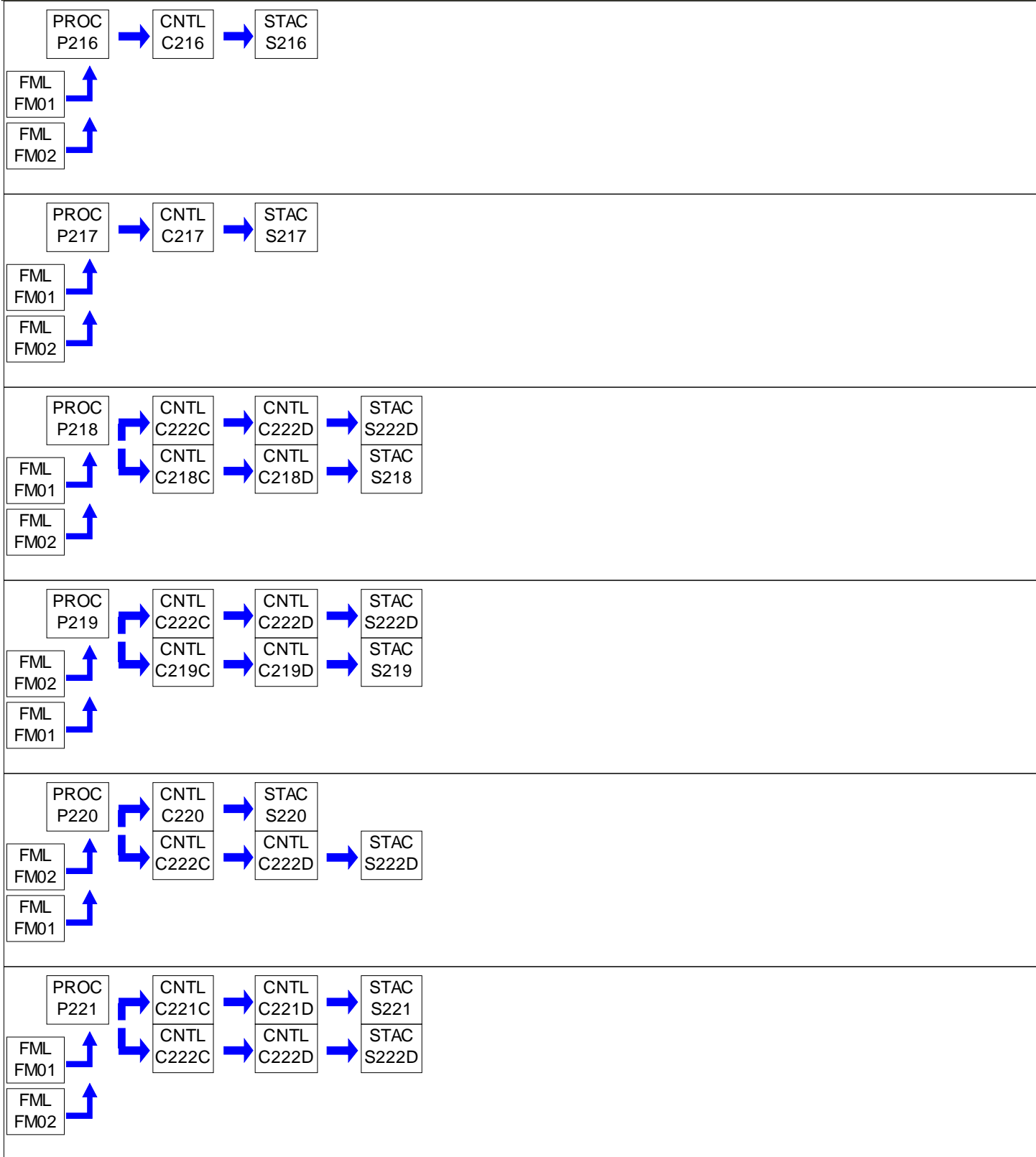


PERMIT MAPS



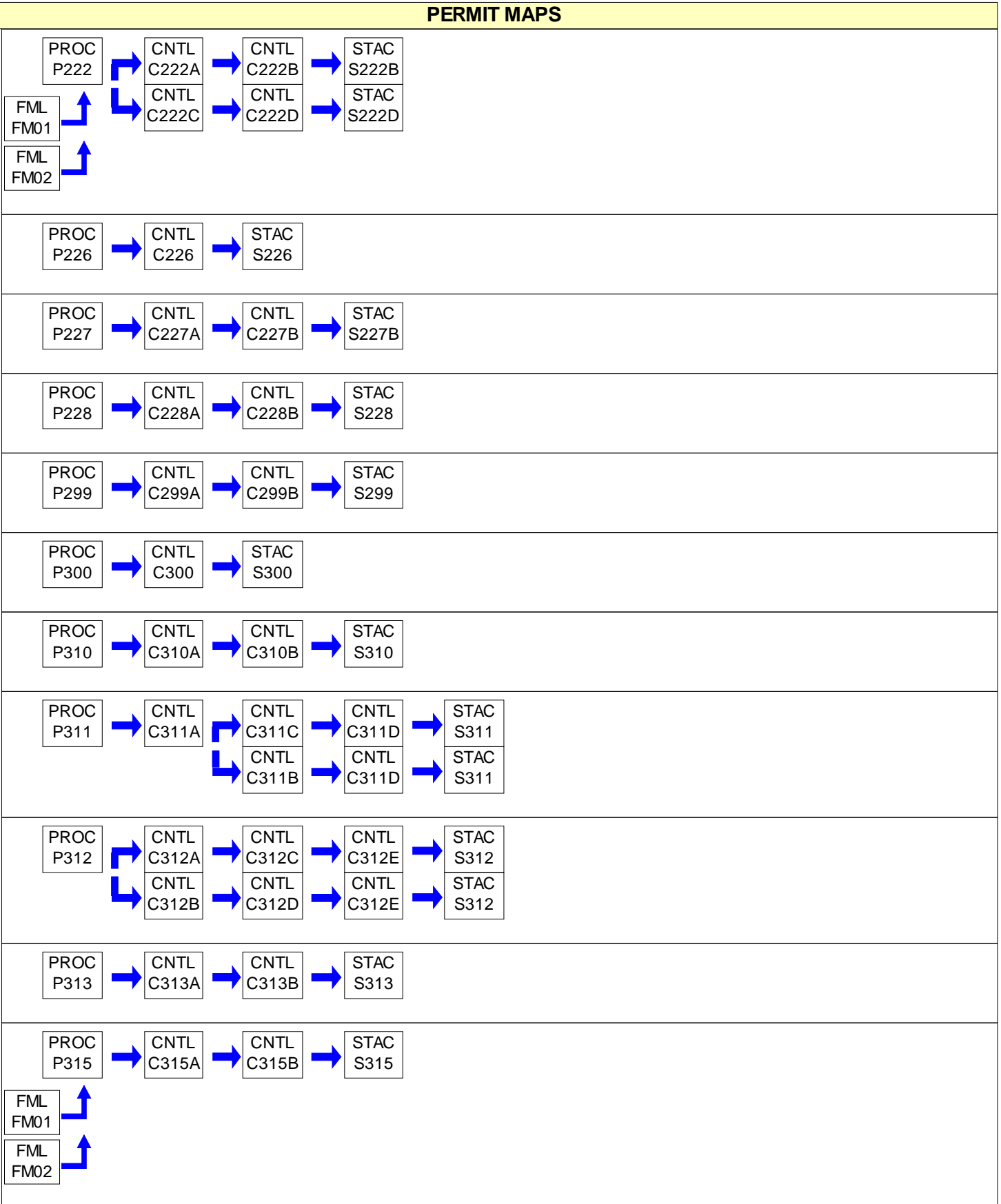


PERMIT MAPS



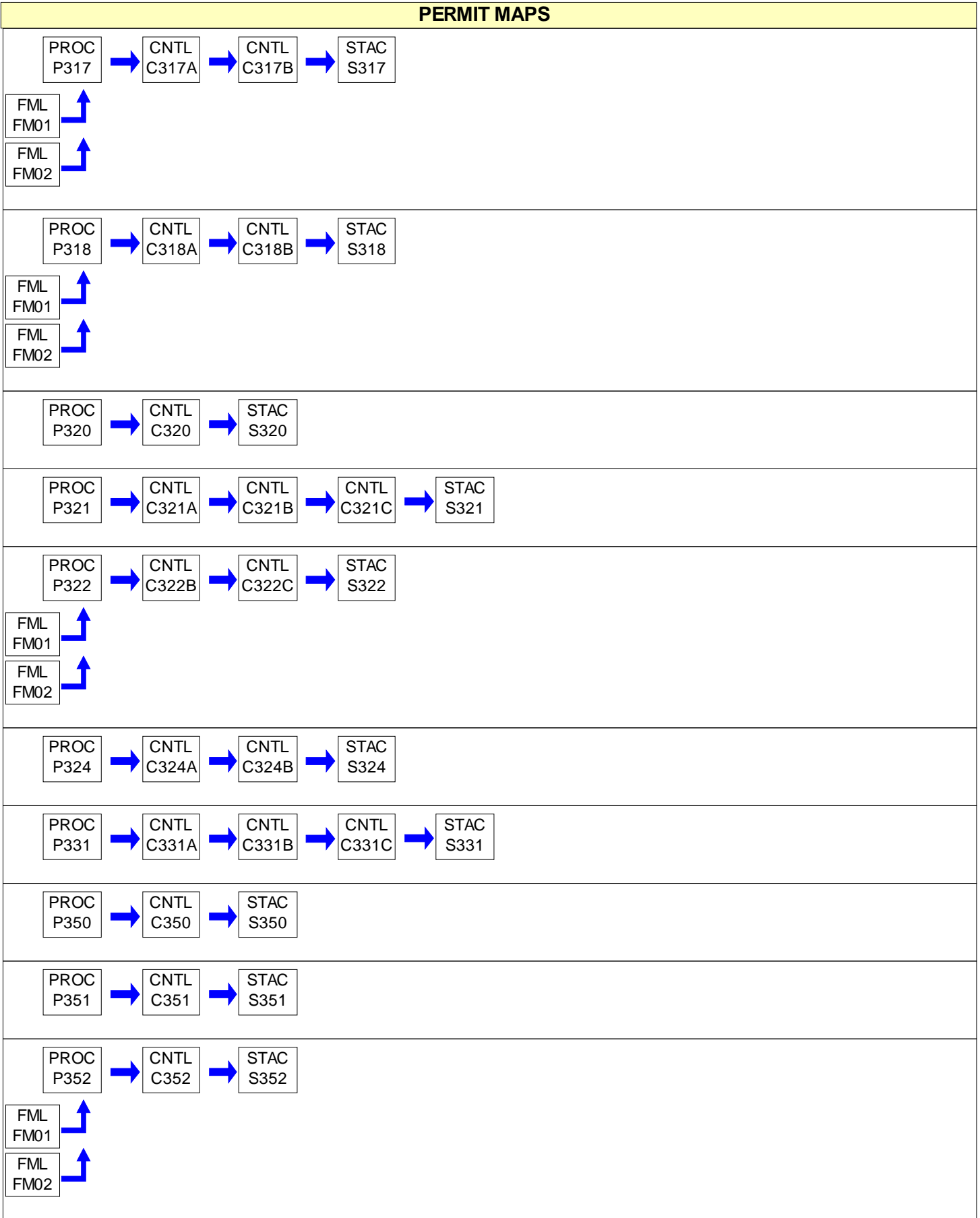


PERMIT MAPS



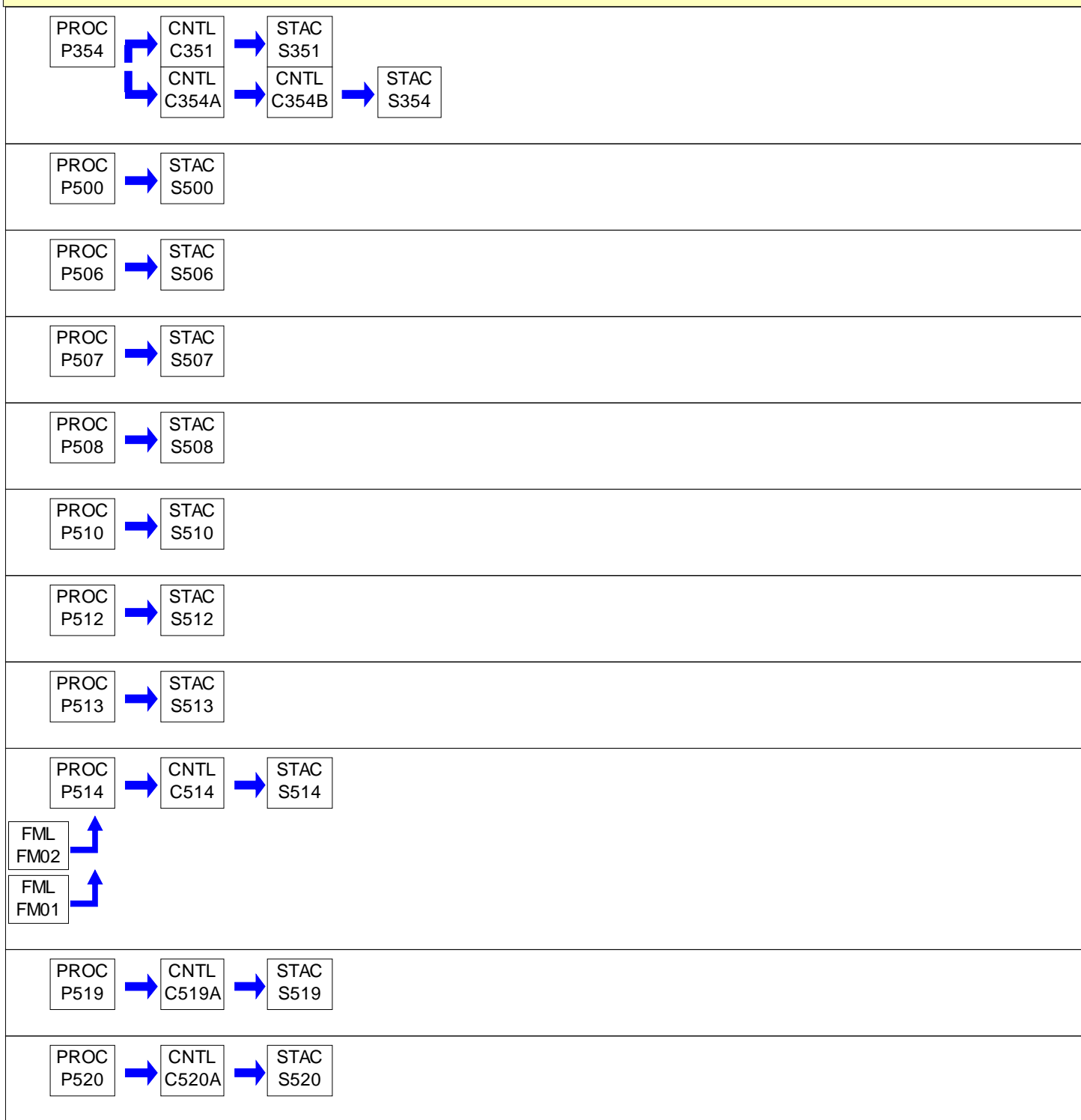


PERMIT MAPS





PERMIT MAPS



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

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

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

[Additional authority for this permit condition is also derived from the permittee electing this synthetic minor restriction.]

The emission of carbon monoxide (CO) into the outdoor atmosphere from the entire facility shall not equal or exceed 100 tons in any 12 consecutive month period.

The emission of nitrogen oxides (NO_x) into the outdoor atmosphere from the entire facility shall not equal or exceed 100 tons in any 12 consecutive month period.

The emission of volatile organic compounds (VOCs) into the outdoor atmosphere from the entire facility shall not equal or exceed 50 tons in any 12 consecutive month period.

The emission of greenhouse (GHG), measured on a CO₂e basis, into the outdoor atmosphere from the entire facility shall not equal or exceed 100,000 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from the permittee electing this synthetic minor restriction.]

The total facility wide usage of natural gas (or equivalent amount of propane on a Btu basis) shall not exceed 1.51 x 10⁹ cubic feet in any 12 consecutive month period. In order to remain in compliance with the facility wide emission limitations, the maximum natural gas usage (cubic feet) shall be decreased to account for the propane usage.

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 a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. One electronic copy shall be sent to the Northcentral Regional Office Air Quality Program Manager 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

**SECTION C. Site Level Requirements**

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 §139.1]

Sampling facilities.

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

007 [25 Pa. Code §139.11]

General requirements.

(a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

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

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may affect 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.

**SECTION C. Site Level Requirements****III. MONITORING REQUIREMENTS.****# 008 [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 devices approved by the Department.

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

The permittee shall equip the sources at the facility with fuel meters such that the facility wide fuel usage can be monitored and shall monitor the total amount of fuel used at the facility.

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

Only parameter readings actually observed to be occurring are to be recorded; at no time shall an estimated values be recorded for any reason.

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

The permittee shall keep records used to verify compliance with the throughput limitations specified in this permit.

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

The permittee shall keep records of supporting calculations and documentation used to verify compliance with the emission limitations specified in this permit.

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

All records maintained in accordance to this permit shall be kept on site for a minimum of five years, unless specified otherwise, and be presented to the Department upon request. Upon request by the Department, the permittee shall keep all requested records in accordance with the Department's suggested format.

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

[Additional authority for this permit condition is also derived from the permittee electing this synthetic minor restriction.]

The permittee shall keep monthly records of the amount of natural gas and propane used at the facility, other applicable throughputs, and the supporting calculations and documentation used to verify compliance with the facility wide carbon monoxide (CO), nitrogen oxide (NOx), volatile organic compound (VOC), and greenhouse gases (GHG) emission limitations specified in this permit.

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

[Additional authority for this permit condition is also derived from the permittee electing this synthetic minor restriction.]

(a) The permittee shall submit reports to the Department on an semi-annual basis that include the supporting monthly calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxide (NOx), volatile organic compound (VOC), and greenhouse gases (GHG) emission limitations for the entire facility.

(b) This report shall be the 12 consecutive month emissions updated each month within the respective reporting period by adding the emissions occurring during the most recent month and dropping the emissions from the corresponding month in the preceding year.

**SECTION C. Site Level Requirements**

(c) The semi-annual reports shall be submitted to the Department on March 1 (from January through December of the previous year) and September 1 (from July of the previous year through June of the current year).

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

016 [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.

(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 resulting from a malfunction or emergency are to be reported in the annual emissions inventory report.

VI. WORK PRACTICE REQUIREMENTS.**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Where appropriate, the permittee shall valve off or gate off from the source those sources exhausted to the respective control device which are not in use in order to assure that adequate air contaminant emission capture occurs at those sources which are in use.

**SECTION C. Site Level Requirements****# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

An appropriate air pollution control equipment inspection and preventive maintenance program shall be implemented.

019 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate all sources and control devices according to manufacturer's recommended operating parameters and good air pollution practices.

VII. ADDITIONAL REQUIREMENTS.**# 020 [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)).

021 [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:
 - (i) The emissions are of minor significance with respect to causing air pollution.
 - (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

022 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

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

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

**SECTION C. Site Level Requirements****# 023 [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 25 Pa. Code Section 123.1 (a)(1)-(a)(7) if the emissions are visible at the point the emissions pass outside the person's property.

024 [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.

025 [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.

026 [25 Pa. Code §123.42]**Exceptions**

The limitations of 25 Pa. Code Section 123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

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

027 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The Department reserves the right to establish operating parameter ranges for any control devices upon the re-issuance of the operating permit.

028 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Operating shift is defined as anytime a respective source is operated during the respective shift.

029 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The aforementioned source(s) may be operated and used only so long as any associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s) or other approval, and the application(s) submitted for said approval(s) (as approved by the Department), and in accordance with any conditions set forth herein.

030 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

If a source level condition listed in Section D of this permit conflicts with the site level conditions listed in Section C, the permittee shall comply with the condition in Section D.

031 [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).



SECTION C. Site Level Requirements

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 035

Source Name: SUPERIOR 6 (DEPT 327)

Source Capacity/Throughput: 21.600 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission from a combustion unit into the outdoor atmosphere of particulate matter in the excess of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11 (a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

[Compliance with the requirement specified in the streamlined permit condition assures the compliance with the provision in 40 CFR 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any one hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

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

As defined in 40 CFR 63.11195(e) - Subpart JJJJJ Sections 63.11195(e) and 63.11237, each boiler shall only burn gaseous fuels not combined with any solid fuel, and only burn liquid fuel during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

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

[Compliance with this condition assures compliance with the provisions of 40 CFR Part 63 Subpart JJJJJ Sections 63.11193 through 63.11226]

Each boiler shall only be fired on gas (Natural or Propane).

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.**

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

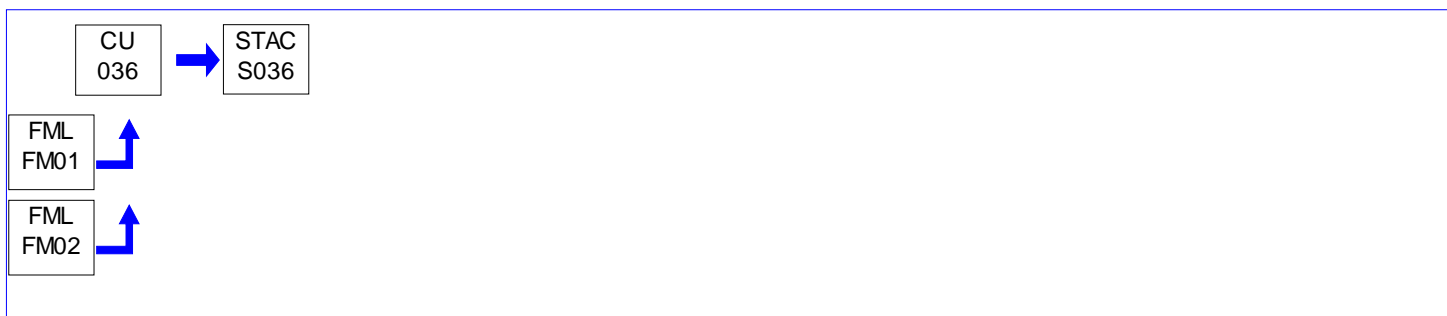
Source ID 035 is a 21.6 MMBtu/hr Superior model GF4RGC500D natural gas/propane fired boiler (Boiler #6, 327-005).

**SECTION D. Source Level Requirements**

Source ID: 036

Source Name: SUPERIOR 5 (DEPT 327)

Source Capacity/Throughput: 26.000 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission from a combustion unit into the outdoor atmosphere of particulate matter in the excess of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11 (a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

[Compliance with the requirement specified in the streamlined permit condition assures the compliance with the provision in 40 CFR 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any one hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

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

As defined in 40 CFR 63.11195(e) - Subpart JJJJJ Sections 63.11195(e) and 63.11237, each boiler shall only burn gaseous fuels not combined with any solid fuel, and only burn liquid fuel during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

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

[Compliance with this condition assures compliance with the provisions of 40 CFR Part 63 Subpart JJJJJ Sections 63.11193 through 63.11226]

Each boiler shall only be fired on gas (Natural or Propane).

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.**

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

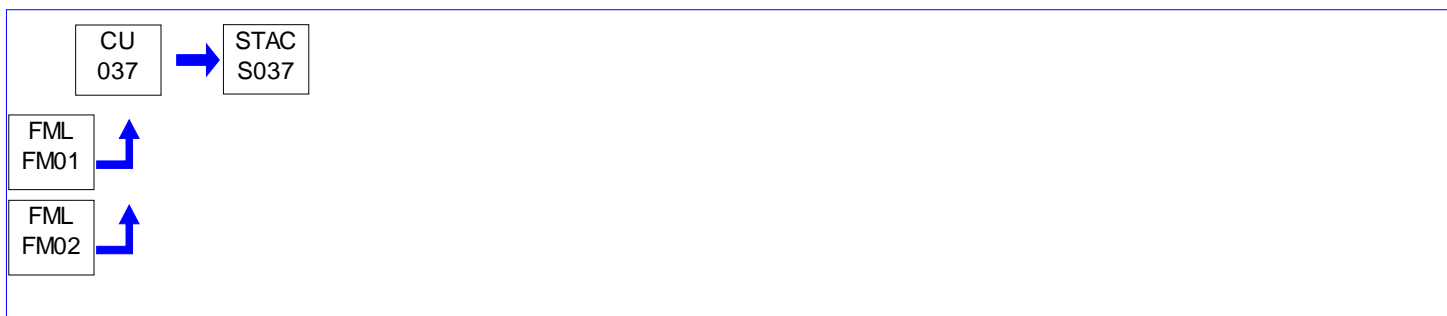
Source ID 036 is a 26 MMBtu/hr Superior model GF4RGC500D natural gas/propane fired boiler (Boiler #5, 327-004).

**SECTION D. Source Level Requirements**

Source ID: 037

Source Name: BOILER 7 (DEPT 327, BLDG 10)

Source Capacity/Throughput: 29.200 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission from a combustion unit into the outdoor atmosphere of particulate matter in the excess of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11 (a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

[Compliance with the requirement specified in the streamlined permit condition assures the compliance with the provision in 40 CFR 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any one hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

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

As defined in 40 CFR 63.11195(e) - Subpart JJJJJ Sections 63.11195(e) and 63.11237, each boiler shall only burn gaseous fuels not combined with any solid fuel, and only burn liquid fuel during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

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

[Compliance with this condition assures compliance with the provisions of 40 CFR Part 63 Subpart JJJJJ Sections 63.11193 through 63.11226]

Each boiler shall only be fired on gas (Natural or Propane).

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.**

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

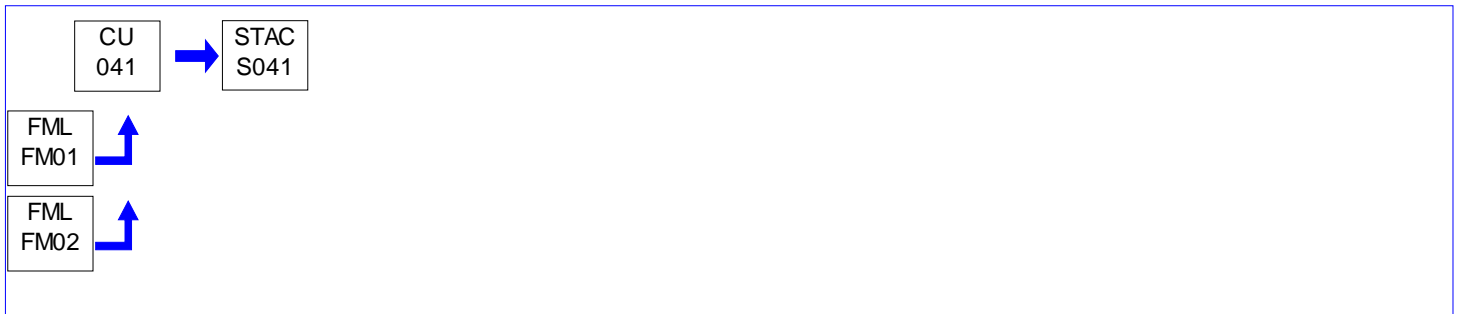
Source ID 037 is a 29.184 MMBTU/hr Superior Combustion model N-700-GAGG natural gas/propane fired boiler (boiler #7, 327-006).

**SECTION D. Source Level Requirements**

Source ID: 041

Source Name: BOILER 9 (DEPT 327, BUILDING 25)

Source Capacity/Throughput: 32.500 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission from a combustion unit into the outdoor atmosphere of particulate matter in the excess of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11 (a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

[Compliance with the requirement specified in the streamlined permit condition assures the compliance with the provision in 40 CFR 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any one hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

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

As defined in 40 CFR 63.11195(e) - Subpart JJJJJ Sections 63.11195(e) and 63.11237, each boiler shall only burn gaseous fuels not combined with any solid fuel, and only burn liquid fuel during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

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

[Compliance with this condition assures compliance with the provisions of 40 CFR Part 63 Subpart JJJJJ Sections 63.11193 through 63.11226]

Each boiler shall only be fired on gas (Natural or Propane).

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.**

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

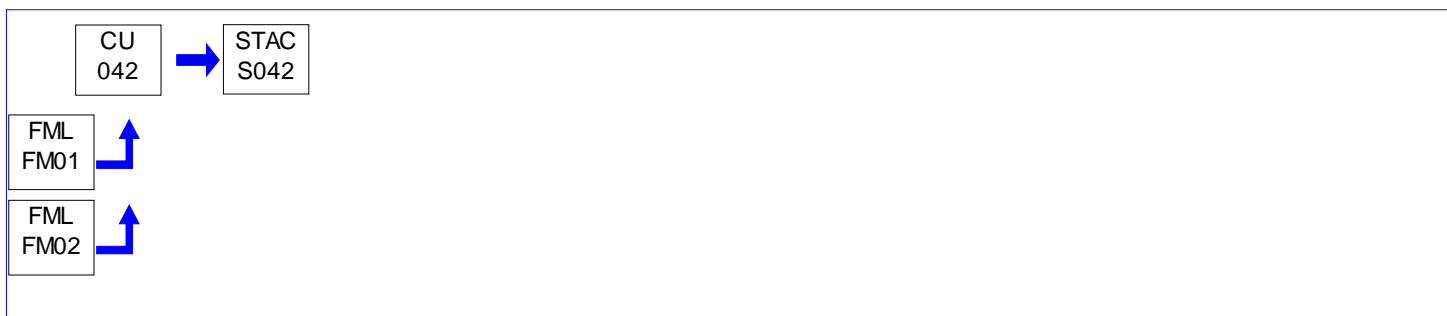
Source ID 041 is a 32.5 MMBTU/hr York Shipley model 800 HP natural gas/propane fired boiler (Boiler #9, 327-008).

**SECTION D. Source Level Requirements**

Source ID: 042

Source Name: BOILER 10 (DEPT 327, BUILDING 25)

Source Capacity/Throughput: 30.500 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission from a combustion unit into the outdoor atmosphere of particulate matter in the excess of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11 (a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

[Compliance with the requirement specified in the streamlined permit condition assures the compliance with the provision in 40 CFR 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any one hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

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

As defined in 40 CFR 63.11195(e) - Subpart JJJJJ Sections 63.11195(e) and 63.11237, each boiler shall only burn gaseous fuels not combined with any solid fuel, and only burn liquid fuel during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

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

[Compliance with this condition assures compliance with the provisions of 40 CFR Part 63 Subpart JJJJJ Sections 63.11193 through 63.11226]

Each boiler shall only be fired on gas (Natural or Propane).

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 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Reporting and recordkeeping requirements.**

The permittee shall record keep monthly records of the amount of fuel burned in Source ID 042. These records shall be retained a minimum of five years and shall be presented to the Department upon request.

V. REPORTING REQUIREMENTS.

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]
Subpart A - General Provisions
Address.**

The submission of all request, reports, applications, submittals, and other communications relating to Source ID 042 required by 40 CFR Part 60 Subpart Dc must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The EPA copies may be sent to:

Director
Air Toxics and Radiation Division
U.S. EPA Region III
1650 Arch Street, 11th Floor 3WC22
Philadelphia, PA 19103-2029

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.

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

Source ID 042 is a 31.385 MMBTU/hr Johnston model PFTA-750-4HG-200S natural gas/propane fired boiler (Boiler #10, 327-009).

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Applicability and delegation of authority.**

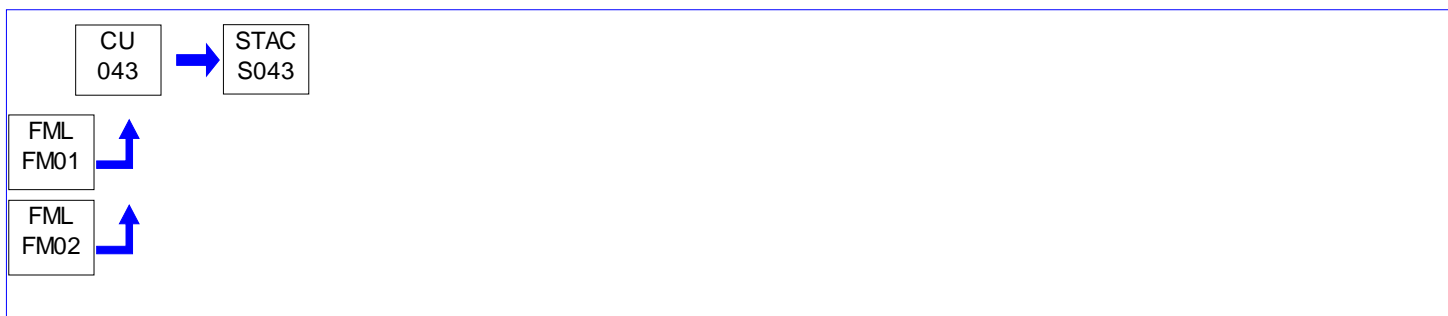
Source ID 042 is subject to 40 CFR Part 60 Subpart Dc Sections 60.40c through 60.48c. The permittee shall comply with all applicable requirements of this subpart.

**SECTION D. Source Level Requirements**

Source ID: 043

Source Name: BOILER 11

Source Capacity/Throughput: 33.600 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission from a combustion unit into the outdoor atmosphere of particulate matter in the excess of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11 (a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

[Compliance with the requirement specified in the streamlined permit condition assures the compliance with the provision in 40 CFR 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any one hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

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

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

Emissions from Source ID 043 shall be equal to or less than:

- a) 30 ppm_{dv} NO_x at 3% O₂; and
- b) 300 ppm_{dv} CO at 3% O₂

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

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the provision in 40 CFR 60.42c(d)]

The permittee shall only use natural gas or propane as fuel for Source ID 043.

II. TESTING REQUIREMENTS.

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

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

The permittee shall install and maintain the necessary meter(s) to determine and to record the amount of fuel used in Source ID 043.

IV. RECORDKEEPING REQUIREMENTS.**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this streamlined permit condition is also derived from 25 Pa. Code § 127.441]

(a) The permittee shall create and maintain records of the amount of each fuel combusted in Source ID 043 during each calendar month in accordance with 40 CFR 60.48c(g)(2).

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

V. REPORTING REQUIREMENTS.**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

The permittee shall comply, for Source ID 043, with all the applicable reporting requirements specified in 40 CFR Section 60.48c.

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

Source ID 043 is a Superior Boiler Works Inc. model 7X-4000-S150-W-G natural gas/propane-fired boiler rated at a maximum of 33.60 MMBtu/hr of heat input.

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

Source ID 043 is subject to 40 CFR Part 60, Subpart Dc - New Source Performance Standards for Small Industrial- Commercial-Institutional Steam Generating Units. The permittee shall comply with all applicable requirements of this Subpart.

**SECTION D. Source Level Requirements**

Source ID: 044

Source Name: TEMPORARY BOILER

Source Capacity/Throughput: 27.190 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission from a combustion unit into the outdoor atmosphere of particulate matter in the excess of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11 (a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

[Compliance with the requirement specified in the streamlined permit condition assures the compliance with the provision in 40 CFR 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any one hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

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

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

Emissions from Source ID 044 shall be equal to or less than:

- a) 30 ppm_{dv} NO_x at 3% O₂; and
- b) 300 ppm_{dv} CO at 3% O₂

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

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the provision in 40 CFR 60.42c(d)]

The permittee shall only use natural gas or propane as fuel for Source ID 044.

II. TESTING REQUIREMENTS.

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

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

The permittee shall install and maintain the necessary meter(s) to determine and to record the amount of fuel used in Source ID 044.

IV. RECORDKEEPING REQUIREMENTS.**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this streamlined permit condition is also derived from 25 Pa. Code § 127.441]

(a) The permittee shall create and maintain records of the amount of each fuel combusted in Source ID 044 during each calendar month in accordance with 40 CFR 60.48c(g)(2).

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

V. REPORTING REQUIREMENTS.**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

The permittee shall comply, for Source ID 044, with all the applicable reporting requirements specified in 40 CFR Section 60.48c.

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

Source ID 044 is a Ware Systems model F2-DB-650X-250PSIG natural gas/propane-fired boiler rated at a maximum of 27.19 MMBtu/hr of heat input.

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

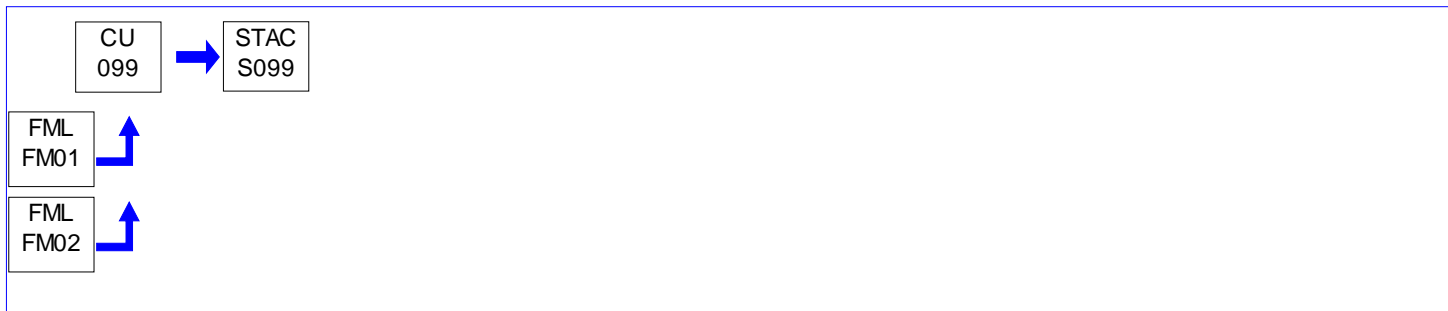
Source ID 044 is subject to 40 CFR Part 60, Subpart Dc - New Source Performance Standards for Small Industrial- Commercial-Institutional Steam Generating Units. The permittee shall comply with all applicable requirements of this Subpart.

**SECTION D. Source Level Requirements**

Source ID: 099

Source Name: COMBUST SRCS NOT INDIVIDUALLY LISTED

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission of particulate matter into the outdoor atmosphere from a combustion unit included in Source ID 099 in the excess of 0.4 pounds per million Btu of heat input, when the heat input to the combustion unit is greater than 2.5 MMBtu/hr, in accordance with 25 Pa. Code Section 123.11 (a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any one hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

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

The sources listed in Source ID 099 shall only be fired on gas (Natural or propane).

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.**

The permittee shall create and maintain a list of combustion sources at the facility rated at less than 10 MMBtu/hr of heat input which are fired on propane and/or natural gas. This list 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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

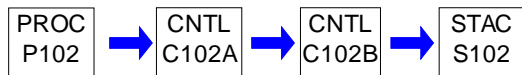
Source ID 099 consists of combustion sources at the facility rated at less than 10 million BTUs per hour heat input.

**SECTION D. Source Level Requirements**

Source ID: P102

Source Name: TUNGSTEN CARBIDE POWDER PROCESSING

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P102 consists of the tungsten carbide powder processing operations consisting of the following sources:

**SECTION D. Source Level Requirements**

(039-004) Alpine mill #2 (jet mill)
(039-005) UHT Furnace

(b) The air contaminate emissions from Source ID P102 shall be controlled by a Flex Kleen model 84-WRS-48 fabric collector (ID C102A, 039-008) and an absolute filter (ID C102B, 039-010) operating in series.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

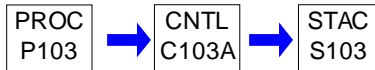
Source ID P102 shall only process tungsten carbide powder containing up to 12% cobalt.

**SECTION D. Source Level Requirements**

Source ID: P103

Source Name: DEPT 340 NH3 STRIPPER PRODUCT TANKS

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 a process 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.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the opacity from the exhaust of the scrubber (ID C103A) shall not be greater than 5% at any time.

Control Device Efficiency Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, control device ID C103A associated with Source ID P103 shall have a minimum ammonia removal efficiency of 99%.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and shall monitor the scrubbing medium flow rate through each scrubber.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each scrubber shall be equipped with instrumentation which continuously monitors the pressure drop across the scrubber, and the permittee shall monitor the pressure drop across the scrubber.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each scrubber at least once per operating shift.

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

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

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, ID C103A associated with Source ID P103 shall be operated at a water recirculation rate of at least 50 gallons per minute. In addition, the fresh water makeup to the system shall be maintained at 1.5 gallons per minute or greater.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the scrubbing solution used in the Ceilcote scrubber (ID C103A) shall be water.

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

Source ID P103 consists of the following equipment and the air contaminant emissions from Source ID P103 shall be controlled by the Ceilcote model SPT-136 scrubber (ID C103A, 014-028).

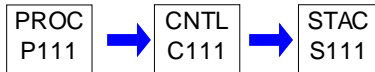
340-006, NH3 Stripper Product Tank North
340-007, NH3 Stripper Product Tank South

**SECTION D. Source Level Requirements**

Source ID: P111

Source Name: TUNGSTEN CARBIDE MILLING & DRYING 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.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.**# 001 [25 Pa. Code §127.14]****Exemptions.**

The emissions from the rotovap unit shall remain below the limits specified in 25 Pa. Code Section 127.14(a)(8)(36).

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

Source ID P111 consists of the following tungsten carbide milling and drying operations:

864-001 Rotovap hood

864-004 Heating table lab exhaust hood

864-006 Rotovap #2

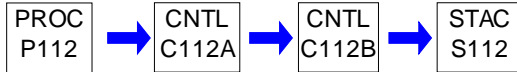
The air contaminant emissions from Source ID P111 shall be controlled by a VIC mfg. model 108 carbon adsorption system (864B) (ID C111, 864-003).

**SECTION D. Source Level Requirements**

Source ID: P112

Source Name: TUNGSTEN CARBIDE EQUIPMENT

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.14]

Exemptions.

The emissions from the transfer station associated with Source ID P112 shall remain below the limits specified in 25 Pa.

**SECTION D. Source Level Requirements**

Code Section 127.14(a)(8)(36) (as published in the Pa. Bulletin on July 26, 2003, document 275-2101-003).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P112 consists of the following tungsten carbide equipment:

Transfer Station

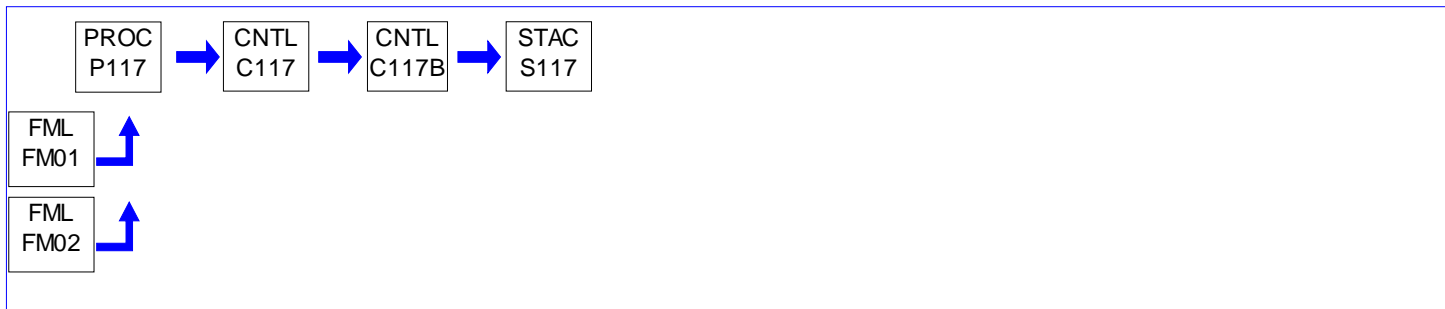
The air contaminant emissions from Source ID P112 shall be controlled by a Torit MIC 770-155 fabric collector (ID C112A, 040-010) and three Cambridge absolute filters (ID C112B, 040-011).

**SECTION D. Source Level Requirements**

Source ID: P117

Source Name: MULTIPLE HEARTH FURNACE

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

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

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

[Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the total combined particulate matter emissions from the exhaust of IDs C117B and C119B associated with Source IDs P117 and P119 shall not exceed 0.006 grains per dry standard cubic foot, 0.41 pounds per hour and 1.76 tons in any 12 consecutive month period.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the total hazardous air pollutant (HAP) emissions from Source IDs P117 and P119 shall not exceed 0.25 tons in any 12 consecutive month period.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, there shall be no visible emissions in the exhaust of control device IDs C117 and C117B associated with Source ID P117.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12 the nitrogen oxides emissions from Source ID P117 shall not exceed 0.89 pounds per hour and 3.90 tons in any 12 consecutive month period. Additionally, the carbon monoxide emissions from Source ID P117 shall not exceed 0.05 pounds per hour and 0.23 tons in any 12 consecutive month period.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the volatile organic compound (VOC) emissions from Source ID P117 shall not exceed 0.41 pounds per hour and 1.77 tons in any 12 consecutive month period.

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

[Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.21]

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the sulfur oxides (SO_x)

**SECTION D. Source Level Requirements**

emissions from Source ID P117 shall not exceed 0.005 pounds per hour and 0.02 tons in any 12 consecutive month period.

Fuel Restriction(s).

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the multiple hearth furnace of Source ID P117 shall only be fired on natural gas.

II. TESTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall collect a grab sample from every drum of material in each truckload accepted for processing tungsten. From these grab samples, the permittee shall create a composite sample from the truckload and analyze the composite sample for the following elements: arsenic, beryllium, calcium, cadmium, cobalt, chromium, copper, iron, manganese, molybdenum, niobium, nickel, phosphorus, sulfur, antimony, tantalum, titanium, vanadium, tungsten and zirconium.

III. MONITORING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P117 shall be equipped with instrumentation to monitor the temperature within the furnace. Additionally, the permittee shall continuously monitor and record the temperature at the combustion zone of Source ID P117.

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following:

- a. Supporting calculations, which verify compliance with the particulate matter, carbon monoxide, sulfur oxide, nitrogen oxide, volatile organic compound and hazardous air pollutant emission limitations.
- b. The results of the sample analysis done on the composite samples of tungsten containing material from each truckload of material received.
- c. The pressure drop across the Scientific Dust Collectors model SPJ-180-4RT6 dust collector (ID C117) and Torit Donaldson model 3H X3W final filter (ID C117B) associated with Source ID P117 at least once per day.
- d. Stack test reports from any testing conducted upon Source ID P117, C117, and/or C117B.

These records shall be kept on site for a minimum of five years and shall be presented to the Department upon request.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

**SECTION D. Source Level Requirements**

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit an annual report to the Department which contains at a minimum the following:

- a. Supporting calculations on a monthly basis, which verify compliance with the particulate matter, carbon monoxide, sulfur oxide, nitrogen oxide, volatile organic compound and hazardous air pollutant emission limitations in any 12 consecutive month period.
- b. Results of the analysis of the samples taken from the tungsten containing material.

VI. WORK PRACTICE REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall check all drums of tungsten containing material (TCM) received on site for volatile organic compounds. The permittee shall only accept the TCM if the VOC content of the material is less than 50% of the lower explosive limit (7,000 ppm) and the material does not contain any halogenated hydrocarbons.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P117 is an International Furnace Company, Inc. multiple hearth furnace (009-137) equipped with eight (8) 1.00 MMBTU/hr North American model MHF 4419 natural gas fired burners and flue gas recirculation.

(b) Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the air contaminant emissions from Source ID P117 shall be controlled by a Scientific Dust Collectors model SPJ-180-4RT6 dust collector (ID C117) and Torit Donaldson model 3H X3W final filter (ID C117B) operating in series.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall maintain the temperature at a minimum of 1400 °F with a minimum residence time of 2 seconds at the combustion zone of source ID P117.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

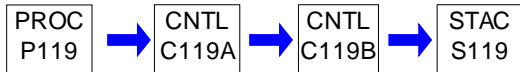
Source ID P119 (Material Handling, MHF) handles the material processed in Source ID P117 (Multiple Hearth Furnace).

**SECTION D. Source Level Requirements**

Source ID: P119

Source Name: MATERIAL HANDLING (MHF)

Source Capacity/Throughput:

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

[Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the total combined particulate matter emissions from the exhaust of IDs C117B and C119B associated with Source IDs P117 and P119 shall not exceed 0.006 grains per dry standard cubic foot, 0.41 pounds per hour and 1.76 tons in any 12 consecutive month period.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the total hazardous air pollutant (HAP) emissions from Source IDs P117 and P119 shall not exceed 0.25 tons in any 12 consecutive month period.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, there shall be no visible emissions in the exhaust of control device IDs C119A and C119B associated with Source ID P119.

II. TESTING REQUIREMENTS.

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

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

The permittee shall keep records of the following:

- Supporting calculations, which verify compliance with the particulate matter and hazardous air pollutant emission limitations.
- The pressure drop across the Farr Tenkay model 30LS cartridge collector (ID C119A) and 2H X 3W HEPA filter (ID C119B) associated with Source ID P119 at least once per day.
- Stack test reports from any testing conducted upon Source ID P119, C119A, and/or C119B.

**SECTION D. Source Level Requirements**

These records shall be kept on site for a minimum of five years and shall be presented to the Department upon request.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit an annual report to the Department which contains at a minimum the supporting calculations, on a monthly basis, which verify compliance with the particulate matter and hazardous air pollutant emission limitations in any 12 consecutive month period.

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P119 consists of the following material handling sources:

- One 1,000 pound per hour TCM sifter
- One 750 pound per hour TCM mixer
- One 35 foot long by 1 foot wide transfer conveyor
- One tote filling station (2 drops)

(b) Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the air contaminant emissions from Source ID P119 shall be controlled by a Farr Tenkay model 30LS cartridge collector (ID C119A) and 2H X 3W HEPA filter (ID C119B) operating in series.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

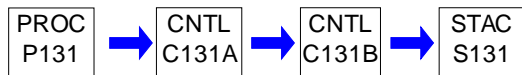
Source ID P119 (Material Handling, MHF) handles the material processed in Source ID P117 (Multiple Hearth Furnace).

**SECTION D. Source Level Requirements**

Source ID: P131

Source Name: 5 AMMONIUM SOLUTION STORAGE TANKS

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the opacity readings taken during any opacity observations on the exhaust of the CECO Filters, Inc. diffusion filter (ID C131B). Additionally, the permittee shall record any corrective action taken. These records shall be retained for a minimum of five 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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

**SECTION D. Source Level Requirements****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The CECO Filters, Inc. diffusion filter (ID C131B) shall be cleaned on a frequent enough basis so as to ensure proper operation of ID C131B.

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

(a) Source ID P131 consists of five (5) 48,076 Augusta Fiberglass ammonium chloride solution storage tanks. The air contaminant emissions from Source ID P131 shall be controlled by five conservation vents {one for each tank} (ID C131A) followed by a CECO Filters, Inc. model TVF-70 fiber bed diffusion filter (ID C131B, 340-008).

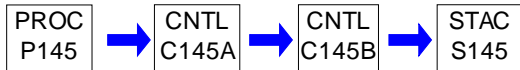
(b) ID C131B shall be located down stream of the five conservation vents after the point at which the vents are manifolded together.

**SECTION D. Source Level Requirements**

Source ID: P145

Source Name: SCRAP HANDLING EQUIPMENT

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID P145 consists of scrap handling equipment (dept. 009) as described below:

Transfer Station

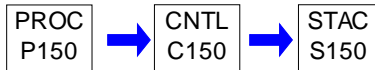
The particulate matter emissions from this source are controlled by a cartridge collector (Mikropul CFH-24V) (company ID 009-125) (ID C145A) followed by an absolute filter (Farr Magna - Series final filter Model #4, 2x3, or equivalent) (company ID 009-126) (ID C145B).

**SECTION D. Source Level Requirements**

Source ID: P150

Source Name: AMT OVEN #2

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 a process 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.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the ammonia emissions in the exhaust of the Bionomic Industries Counter Current Packed Tower, Model 24, Series 5000 scrubber (ID C150) associated with Source ID P150 shall not exceed 0.10 lbs/hr and 0.42 tons in any 12 consecutive month period.

Control Device Efficiency Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The Bionomic Industries Counter Current Packed Tower, Model 24, Series 5000 Scrubber (ID C150) shall have a control efficiency for ammonia of at least 99.5%.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Bionomic Industries Counter Current Packed Tower, Model 24, Series 5000 scrubber (ID C150) associated with Source ID P150 shall be equipped with instrumentation which continuously monitors the following parameters:

- the temperature at the inlet to the second stage of the scrubber,
- the pressure drop across the packed bed of the scrubber,
- the water flow rates through the first and second stage of the scrubber, and
- the combined makeup and quench rate in the first stage of the scrubber.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Bionomic Industries Counter Current Packed Tower, Model 24, Series 5000 scrubber (ID C150) associated with Source ID P150 shall be operated in such a manner that the following parameters remain within the given ranges:

- the temperature at the inlet to the second stage of the scrubber: 75°F or less,

**SECTION D. Source Level Requirements**

b. the water flow rates through the first and second stage of the scrubber: 40 GPM or greater and 3 GPM or greater, respectively.

c. the combined makeup and quench rate in the first stage of the scrubber: 2 GPM or greater.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to establish a pressure drop range, based on actual pressure drop data, for the packed bed of the scrubber (ID C150) upon issuance of an operating permit.

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of supporting calculations used to verify compliance with the ammonia emission limitations. These records shall be retained for a minimum of five years and shall be presented to the Department upon request.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following operating parameters of the scrubber (ID C150) at least once per day.

- a. the temperature at the inlet to the second stage of the scrubber,
- b. the pressure drop across the packed bed of the scrubber,
- c. the water flow rates through both the first and second stages of the scrubber, and
- d. the combined makeup and quench rate in the first stage of the scrubber.

These records shall be retained for a minimum of five years and shall be presented 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.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P150 and the Bionomic Industries Counter Current Packed Tower, Model 24, Series 5000 scrubber (ID C150) associated with Source ID P150 shall be operated in accordance with the manufacturer's specifications and good air pollution control practices.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall utilize an internal dust collector exhausting through a HEPA filter indoors to control fugitive dust emissions in the event they are observed during the loading, unloading, and handling operations associated with Source ID P150.

VII. ADDITIONAL REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the scrubbing solution used in the Bionomic Industries Counter Current Packed Tower, Model 24, Series 5000 scrubber (ID C150) shall only be

**SECTION D. Source Level Requirements**

water.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

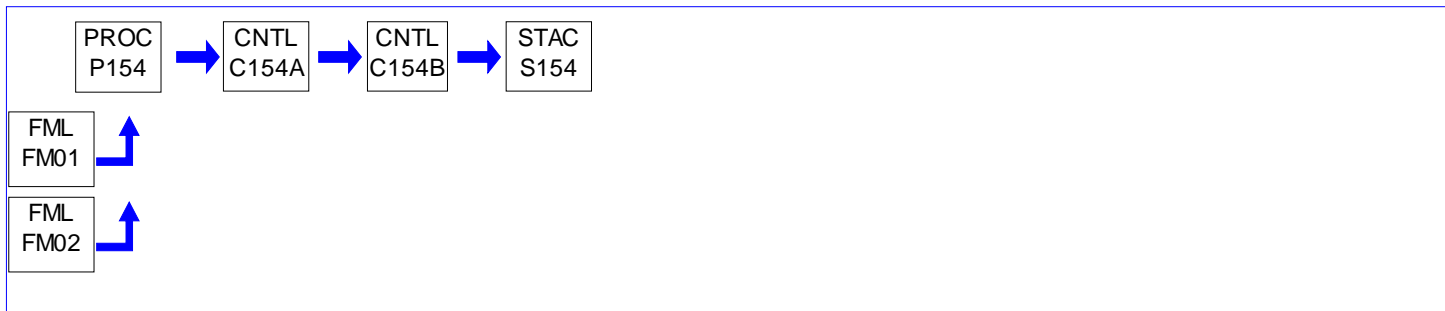
Source ID P150 is a Wyssmont Company Model LE-24 Turbo-Dryer electric ammonium meta-tungstate processing rotary oven rated at a maximum production rate of 800 lbs/hr. The air contaminant emissions from Source ID P150 shall be controlled by the quench unit and Bionomic Industries Counter Current Packed Tower, Model 24, Series 5000 scrubber (ID C150).

**SECTION D. Source Level Requirements**

Source ID: P154

Source Name: SPRAY DRYING AM-MET-TUNG.

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

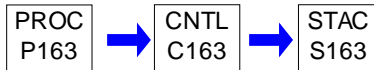
Source ID P154 consists of (001-028) spray dryer and the emissions from which are controlled by a Niro cyclone (ID C154A, 001-029) and Mikropul Bag dust collector (ID C154B, 001-030), operating in series.

**SECTION D. Source Level Requirements**

Source ID: P163

Source Name: FRYE WHEELABRATOR

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P163 is a Frye wheelabrator (083-007) and the emissions shall be controlled by a Wheelabrator dust collector (ID



SECTION D. Source Level Requirements

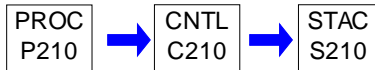
C163, 083-025).

**SECTION D. Source Level Requirements**

Source ID: P210

Source Name: DEPT 046: TUNGSTEN ORE GRINDER AND DIGESTER TANK

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID P210 consists of a tungsten ore grinder charging hood (046-052) and digester tank D-1 (046-053).

The air contaminant emissions from which shall be controlled by a Carborumndum model 1500 CN-2 fabric collector (046D) (control ID C210, 046-067)).

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

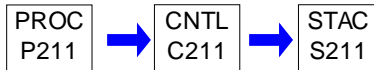
Source IDs P117, P119, P210, P211, P212, P213, P215 through P222 are associated with the ammonium paratungstate (APT) production. Source IDs P117, P210, and P215 through P222 feed into Source IDs P211, P212 and P213.

**SECTION D. Source Level Requirements**

Source ID: P211

Source Name: DEPT 046: APT PRODUCTION (ADDITIONAL EQUIP)

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 a process 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.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the ammonia emissions in the exhaust of the Bionomic Industries Counter Current Packed Bed, model 114, Series 5000 scrubber (ID C211) associated with Source ID P211 shall not exceed 0.214 lbs/hr and 0.937 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

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

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and shall monitor the scrubbing medium flow rate through each scrubber.

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

Each scrubber shall be equipped with instrumentation which continuously monitors the pressure drop across the scrubber, and the permittee shall monitor the pressure drop across the scrubber.

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

Each scrubber with a pH requirement shall be equipped with instrumentation which continuously monitors the pH of the scrubbing medium through the scrubber, and shall monitor the pH of the scrubber.

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

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

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

The permittee shall record the pressure drop across each scrubber at least once per operating shift.

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

The permittee shall record the pH of the scrubbing medium for each scrubber with a pH requirement at least once per operating shift.

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

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

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the scrubbing solution used in the Bionomic Industries Counter Current Packed Tower, model 114, Series 5000 scrubber (ID C211) shall only be phosphoric acid and water solution.

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

Source ID P211 and the Bionomic Industries Counter Current Packed Tower, model 114, Series 5000 scrubber (ID C211) associated with Source ID P211 shall be operated according to good air pollution control practices.

Upon issuance of the operating permit, the Department reserves the right to establish an operating range for the scrubber parameters required to be monitored in order to verify that control device ID C211 is operated in accordance with good air pollution control practices.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the pH of the scrubbing solution shall remain less than or equal to a pH of 7.0.

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

The permittee shall construct enclosures for the filter presses in such a manner that any fugitive particulate matter emissions created are captured to the maximum extent.

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

Source ID P211 consists of the following equipment used to manufacture ammonium paratungstate (APT):

- a. 10,000 gallon dilution/pressure reduction tank (T-700)
- b. 3,000 gallon Goodhart & Sons reslurry tank (T-7801)
- c. Evaporator/Crystallizer belt filter (BF-2)
- d. Evaporator/Crystallizer vacuum pump
- e. 4,000 gallon dissolve tank (T-1100)
- f. Digestion Tank A-1 (3,000 gallon J.D. Cousins Inc.)
- g. Digestion Tank A-2 (3,200 gallon American Alloy Fabrications, Inc.)
- h. Digestion Tank A-4 (3,800 gallon Highland Tank MFG Co.)
- i. Perrin (A-tank) NH₃ Digestion Filter Press
- j. 4,000 gallon Slurry Tank T-401
- k. 4,000 gallon Slurry Tank T-402
- l. MLC-3
- m. LS-8A
- n. TS-1

The air contaminant emissions from Source ID P211 shall be controlled by the Bionomic Industries Counter Current Packed Bed, model 114, Series 5000 scrubber (ID C211).

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

Source IDs P117, P119, P210, P211, P212, P213, P215 through P222 are associated with the ammonium paratungstate

**SECTION D. Source Level Requirements**

(APT) production. Source IDs P117, P210, and P215 through P222 feed into Source IDs P211, P212 and P213.

**SECTION D. Source Level Requirements**

Source ID: P212

Source Name: DEPT 046: SULFIDE TREATMENT/TUNGSTEN REFINING PROCESS

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Cell 25 (C-25) may be exhausted continuously when the vent line is equipped with a 1.24" orifice plate.

Control Device Efficiency Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the scrubber (ID C212) shall achieve a minimum removal efficiency of 99% for hydrogen sulfide.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The company shall also sample the scrubbing solution used in the scrubber ID C212 at least once per shift for normality. A normality reading within the range of 2.78N to 4.39N shall be considered equivalent to the concentration limitations specified in this source ID. The company shall record the results of the normality checks and shall retain these records on site for at least five years.

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the scrubber (ID C212) associated with Source ID P212 shall be equipped with instrumentation which continuously and accurately monitors the following parameters:

- the pressure drop across the packed bed of the scrubber,
- the scrubbing solution flow rate through the scrubber, and
- the scrubber solution caustic concentration shall be sampled at least once per operating shift.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.14]****Exemptions.**

The permittee shall keep records of supporting documentation including emission calculations and stack test results used to verify compliance with the emission limitation associated with the LIX column (046-100). These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

The permittee shall keep records of the following operating parameters of the scrubber (ID C212) at least once per operating shift.

- a. the pressure drop across the packed bed of the scrubber,
- b. the scrubbing solution flow rate through the scrubber, and
- c. the scrubber solution caustic concentration shall be sampled at least once per operating shift.

These records shall be retained for a minimum of five years and shall be presented to the Department upon request.

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

The permittee shall create records of the amount and type of solvent and phase modifier used in Source IDs P212 and P213 on a monthly basis. These records shall be maintained for a minimum of 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.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Cell 25 shall be operated as specified in the request dated December 2, 2004.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the scrubber ID C212 shall utilize a 10% to 15% caustic solution as the scrubbing solution. Additionally, the scrubber shall maintain a minimum scrubbing solution recirculation rate of 125 gallons per minute. The recommended blowdown and make-up rate is 5 gallons per minute.

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

The pressure drop across the packed tower of scrubber ID C212 shall not exceed 4.75 inches w.c.

VII. ADDITIONAL REQUIREMENTS.**# 013 [25 Pa. Code §127.14]****Exemptions.**

The volatile organic compound emissions from the LIX column (ID 046-100) shall remain below 1.0 ton in any 12 consecutive month period (ton/12CMP).

014 [25 Pa. Code §127.14]**Exemptions.**

The volatile organic compound (VOC) emissions from the LIX column (ID 046-100) shall be controlled by the scrubber (ID C212) anytime the process is operating.

**SECTION D. Source Level Requirements****# 015 [25 Pa. Code §127.14]****Exemptions.**

The LIX column (046-100) shall be operated as presented in the RFD #2816 application.

016 [25 Pa. Code §127.14]**Exemptions.**

Upon commencement of operation of the LIX column (046-100), the permittee shall not operate the LIX cells (#21-23; IDs 046-034, 046-035, 046-036) for a period of time that exceeds six months. Within 5 days after the commencement of operation of the LIX column, the permittee shall, in writing, notify the Department of said activity. Also within 5 days after ceasing to operate the LIX cells, the permittee shall, in writing, notify the Department of said activity.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P212 consists of the following processes:

a. Sulfide treatment/molybdenum removal process consists of vessels:

i. tanks

"S-1 agitated rubber lined 6000 gal tank"

"S-2 agitated rubber lined 6000 gal tank"

"S-3 agitated rubber lined 6000 gal tank"

"SH-1 rubber lined tank 10000 gal"

"LS-5 10000 gal steel tank"

"M-1 = CTL-1 (chemical reaction tank) American Boiler 904L stainless steel tank 4,000 gallon"

"M-2 = CTL-2 (chemical reaction tank) Goodhart Sons stainless steel tank 4000 gal"

"M-3 = CTL-3 (chemical reaction tank) Goodhart Sons stainless steel tank 4000 gal"

"CTL-4 (chemical reaction tank) (spare tank, not hooked up)"

ii. LIX Cells

"C-25 Hasbrouck Plastics LIX cell"

"C-28 Hasbrouck Plastics LIX cell"

iii. LIX column

Liquid Ion Exchange (LIX) column

iiii. tanks

"T-1 1500 gal agitated steel tank"

"T-3 10,000 gal fiberglass lined steel tank"

"T-4 agitated Kynar lined tank 4500 gal"

"T-5 Kynar lined tank 2800 gal"

"T-6 Kynar lined 4500 gal tank"

"T-8 agitated kynar lined tank 2800 gal"

"T-14 agitated fiberglass 2800 gallon tank"

"D-3 agitated stainless 5800 gal tank"

b. And the following additional processes:

"Belt Filter (sodium tungsten (NaWO₃) & caustic recycle)"

"25% NaSH Tank 6500 gal agitated steel tank"

"Bldg 25 Waste Tank Fiberglass tank-chemical waste lift station"

The air contaminant emissions from Source ID P212 shall be controlled by the Severn Trent Services EST Packed Tower Type 955 Wet Gas Scrubber System (ID C212) any time the sources are operating.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee may duct the wash tank to the scrubber ID C212 identified in this source ID as long as doing so does not

**SECTION D. Source Level Requirements**

adversely impact the capture and control of the air contaminant emissions from those process vessels currently controlled by the respective scrubber and as long as doing so does not result in the emission of visible air contaminant emissions (other than steam or water vapor) from the scrubber exhaust. Should the permittee ever determine that the use of the scrubber ID C212 to control the emissions from the wash tank is adversely impacting emission capture and control on the other process vessels or resulting in the emission of visible air contaminants from the scrubber exhaust, or ever receive notice that the Department of Environmental Protection has made such a determination, the permittee shall immediately disconnect the wash tank from the respective scrubber.

019 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, none of the following vessels of Source ID P212 (CTL-1, CTL-2, CTL-3) may be operated without the simultaneous operation of ID C212.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, under no circumstance shall more than three of the four vessels (CTL-1, CTL-2, CTL-3, CTL-4) be operated at any time.

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

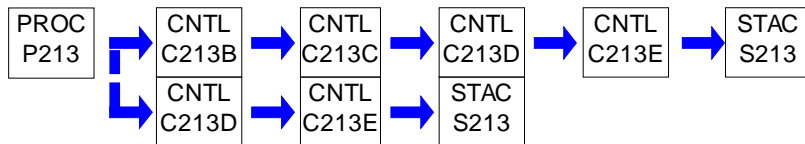
Source IDs P117, P119, P210, P211, P212, P213, P215 through P222 are associated with the ammonium paratungstate (APT) production. Source IDs P117, P210, and P215 through P222 feed into Source IDs P211, P212 and P213.

**SECTION D. Source Level Requirements**

Source ID: P213

Source Name: DEPT 046: AMMONIUM PARATUNGSTATE CRYSTALLIZATION PROCESS

Source Capacity/Throughput:

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

The Ceilcote VCP-82 (ID C213D) and SPT-60-156 (ID C213E) scrubbers references herein shall be operated in such a manner that the overall combined ammonia removal efficiency, over any time period, is 85% or greater. Failure to do so will be considered a violation of 25 Pa. Code Section 127.444 and shall additionally be grounds for revocation of this operating permit.

II. TESTING REQUIREMENTS.

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

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

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and shall monitor the scrubbing medium flow rate through each scrubber.

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

Each scrubber shall be equipped with instrumentation which continuously monitors the pressure drop across the scrubber, and the permittee shall monitor the pressure drop across the scrubber.

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

Continuous flow monitors measuring the scrubbing solution flow rate to each scrubber and pH monitors on the Ceilcote VCP-82 and Ceilcote SPT-60-156 scrubbers shall be installed and maintained in operating condition at all times.

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

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

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

The permittee shall record the pressure drop across each scrubber at least once per operating shift.

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

The permittee shall create records of the amount and type of solvent and phase modifier used in Source IDs P212 and P213 on a monthly basis. These records shall be maintained for a minimum of 5 years and be made available to the Department upon request.

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

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

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

The phosphoric acid scrubbing solution of Ceilcote VCP-82 packed bed scrubber (ID C213D) shall remain below a pH of 8.0.

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

The phosphoric acid scrubbing solution of Ceilcote SPT-60-156 packed bed scrubber (ID C213E) shall be maintained at a pH of 6.6+/-0.2.

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

The permittee shall maintain a minimum flow rate of 80 gallons per minute (GPM) in the Ceilcote VCP-82 packed bed scrubber (ID C213D).

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

The permittee shall maintain a minimum flow rate of 118 gallons per minute (GPM) in the Ceilcote SPT-60-156 packed bed scrubber (ID C213E).

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

Source ID P213 consists of the following:

a. Equipment venting to the ammonia condenser (C213B), packed bed adsorber (C213C), primary ammonia scrubber (C213D), and secondary ammonia scrubber (C213E):

- i. AR-T1
- ii. Evaporators E-1, E-2, E-3, E-4, E-5, E-6
- iii. LS-6

b. Equipment venting to the packed bed absorber (C213C), primary ammonia scrubber (C213D), and secondary ammonia scrubber (C213E):

- i. A-3
- ii. T-11
- iii. T-12

c. Equipment venting to the primary ammonia scrubber (C213D), and secondary ammonia scrubber (C213E):

- i. AR-T2, AR-T3, AR-T4, AR-T5
- ii. C-26, C-27
- iii. D-2, D-2A
- iv. LS-2, LS-3, LS-7, LS-8
- v. T-09, T-10, T-13
- vi. T-B
- vii. XS-1

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

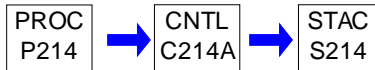
Source IDs P117, P119, P210, P211, P212, P213, P215 through P222 are associated with the ammonium paratungstate (APT) production. Source IDs P117, P210, and P215 through P222 feed into Source IDs P211, P212 and P213.

**SECTION D. Source Level Requirements**

Source ID: P214

Source Name: BICKLEY SINTER FURNACE

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

During the first 36 hours of each ceramic recuperator batch, the aforementioned heat treat furnace may be operated only so long as the associated electrostatic precipitators are operated. Operation of the electrostatic precipitators may be ceased after the 36th hour of each batch provided no visible air contaminant emissions result.

Operation of the electrostatic precipitator is not required when drying refractory, provided that there are no emissions (other

**SECTION D. Source Level Requirements**

than water vapor) created during the process.

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

Source ID P214 is the Bickley Sinter Furnace A0029 (216-001).

The permittee produces in the furnace ceramic recuperators (which emits volatile organic compounds and particulate matter). The permittee also dries refractory in the furnace (which only emits water vapor).

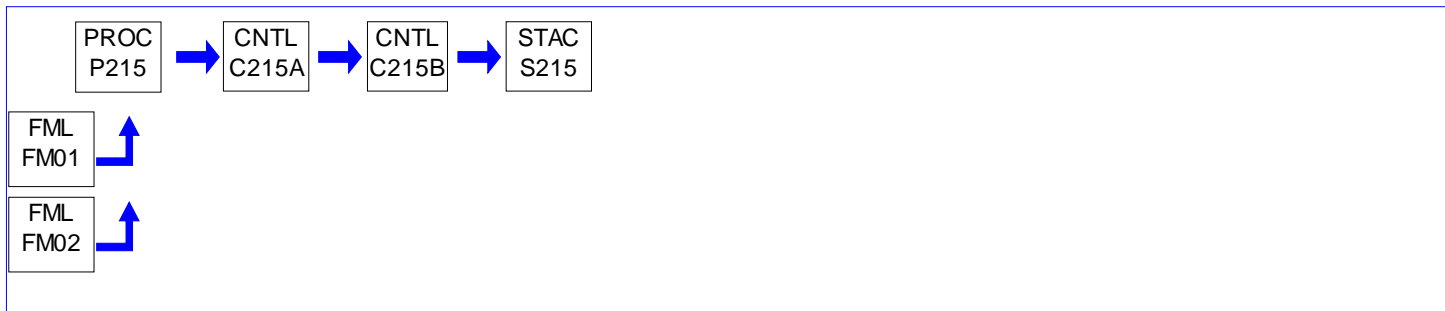
The air contaminant emissions from the Furnace (Source Id P214) shall be controlled by the two (2) Tepco #2001 electrostatic precipitators (ESPs) (ID 214A, 216-002).

**SECTION D. Source Level Requirements**

Source ID: P215

Source Name: CALCINER #1

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

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

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

[Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, no person may permit the emission into the outdoor atmosphere of total particulate matter (filterable and condensable) from the exhaust of ID C215B associated with Source ID P215 in a manner that the concentration in the effluent gas exceeds 0.08 lbs/hr, 0.35 tons/12CMP, and 0.0016 grains per dry standard cubic foot.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, calciner #1 (Source ID P215) shall only be fired on natural gas or propane.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall only process tungsten scrap in calciner #1 (Source ID P215) and the tungsten scrap shall not contain any cutting fluids, any volatiles, or any hazardous materials. Additionally, the permittee shall not produce more than 375 lbs/hr of tungsten oxide in Source ID P215.

Control Device Efficiency Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the Best Available Technology requirements on 25 Pa. Code Sections 127.1 and 127.12, control device ID C215B (HEPA filter) shall have a control efficiency for particulate matter of at least 99.97%.

II. TESTING REQUIREMENTS.

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

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the Donaldson Torit model 81MBT10 fabric collector (ID C215A) shall be equipped with instrumentation to continuously monitor and record the inlet temperature to the collector.

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

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

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

The permittee shall keep records of the following:

- a. Supporting calculations which verify compliance with the particulate matter emission limitation and the throughput limitation.
- b. The pressure drop across the collector (ID C215A) and HEPA filter (ID C215B) associated with Source ID P215 at least once per day.
- c. The inlet temperature to the fabric collector (ID C215A) associated with Source ID 215 on a continuous basis.

These records shall be kept on site for minimum of five years and shall be presented 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.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P215 consists of Calciner #1, a 30 inch Harper Electric (009-001).

**SECTION D. Source Level Requirements**

The particulate matter emissions from Source ID P215 shall be controlled by the Donaldson Torit model 81MBT10 fabric collector (ID C215A, 009-007) which incorporates a HEPA filter (ID C215B, 009-143) in its exhaust duct.

Additionally, control device IDs C215A and C215B shall be made of material that is capable of withstanding temperatures up to 390°F.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the Department reserves the right to establish a pressure drop range for the Donaldson Torit model 81MBT10 fabric collector (ID C215A) and HEPA filter (ID C215B) upon the issuance of an operating permit.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the air temperature shall not exceed 390°F in the inlet of the fabric collector (ID C215A).

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the opacity from the exhaust of control device ID C215B shall not exceed 5%.

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

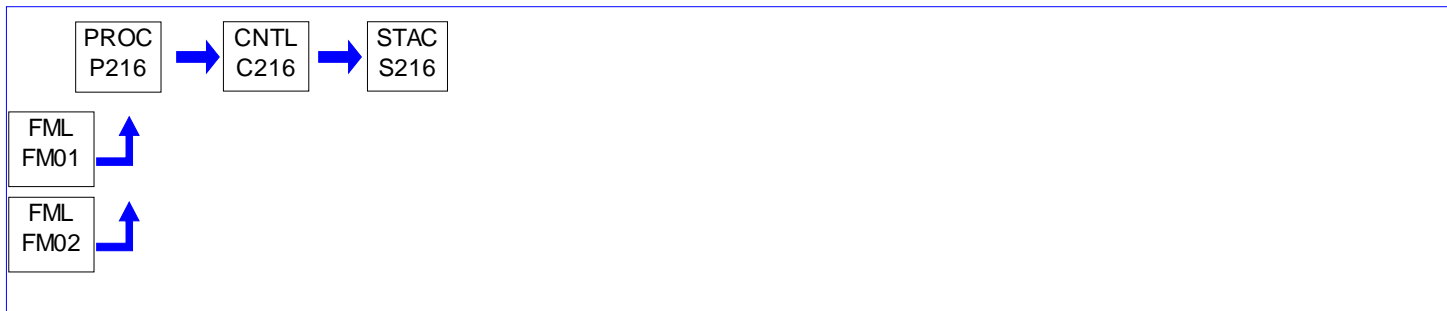
Source IDs P117, P119, P210, P211, P212, P213, P215 through P222 are associated with the ammonium paratungstate (APT) production. Source IDs P117, P210, and P215 through P222 feed into Source IDs P211, P212 and P213.

**SECTION D. Source Level Requirements**

Source ID: P216

Source Name: CALCINER #2

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P216 consists of a Harper Rotary Calciner model GU-30D180-RT-15 30-inch calciner (Calciner 30-2, 009-002).

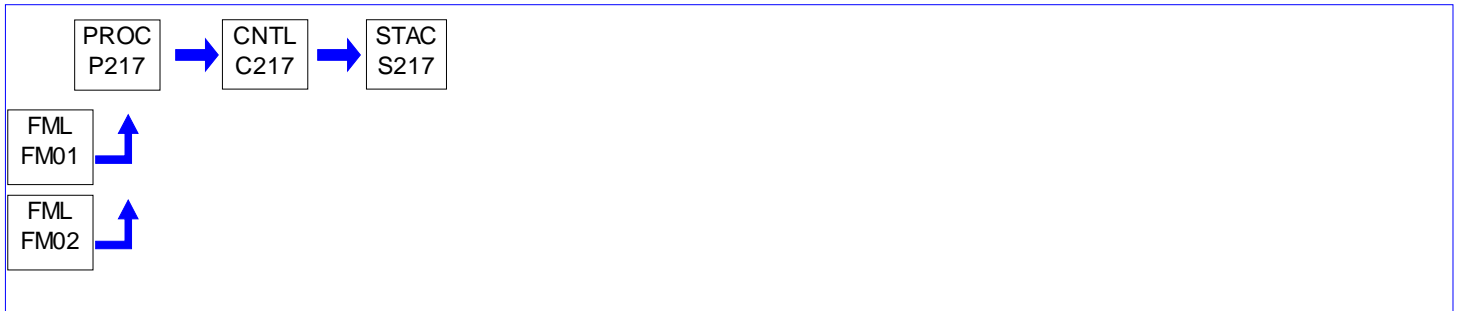
The air contaminant emissions from which shall be controlled by the Mikropulsaire model 69-5-88 fabric collector (control ID C216).

**SECTION D. Source Level Requirements**

Source ID: P217

Source Name: CALCINER #3

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P217 consists of a Harper Rotary Calciner model GU-30D180-RT-15 30-inch calciner (Calciner 30-3, 009-003).

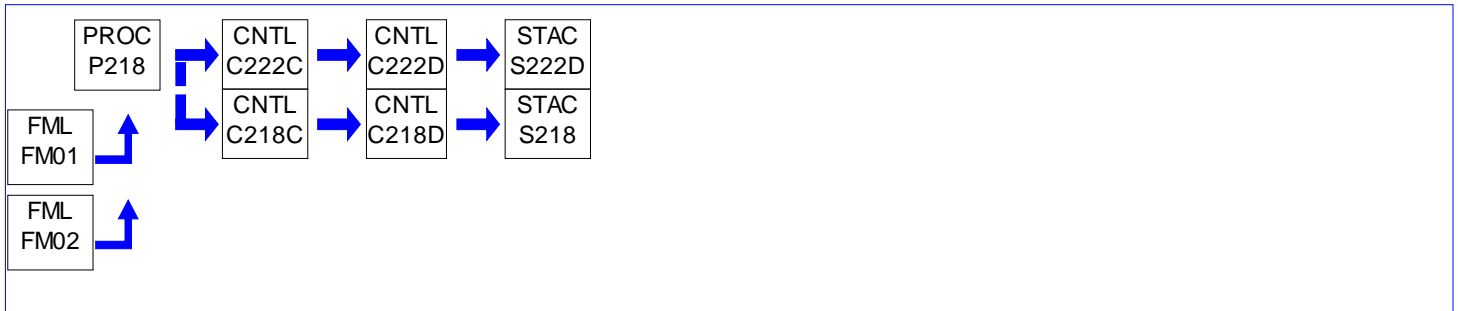
The air contaminant emissions from which shall be controlled by a Flex-Kleen model 84-WRS-64 fabric collector (control ID C217).

**SECTION D. Source Level Requirements**

Source ID: P218

Source Name: CALCINER #4

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

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

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

[Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, no person may permit the emission into the outdoor atmosphere of total particulate matter (filterable and condensable) from the exhaust of ID C218D associated with Source ID P218 in a manner that the concentration in the effluent gas exceeds 0.1 lbs/hr, 0.44 tons/12CMP, and 0.002 grains per dry standard cubic foot.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, calciner #4 (Source ID P218) shall only be fired on natural gas or propane.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall only process tungsten scrap in calciner #4 (Source ID P218) and the tungsten scrap shall not contain any cutting fluids, any volatiles, or any hazardous materials. Additionally, the permittee shall not produce more than 480 lbs/hr of tungsten oxide in Source ID P218.

Control Device Efficiency Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the Best Available Technology requirements on 25 Pa. Code Sections 127.1 and 127.12, control device ID C218D (HEPA filter) shall have a control efficiency for particulate matter of at least 99.97%.

II. TESTING REQUIREMENTS.

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

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the Scientific Dust Collector model SPJ-X4RT10 fabric collector (ID C218C) shall be equipped with instrumentation to continuously monitor and record the inlet temperature to the collector.

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

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

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

The permittee shall keep records of the following:

- a. Supporting calculations which verify compliance with the particulate matter emission limitation and the throughput limitation.
- b. The pressure drop across the collector (ID C218C) and HEPA filter (ID C218D) associated with Source ID P218 at least once per day.
- c. The inlet temperature to the fabric collector (ID C218C) associated with Source ID P218 on a continuous basis.

These records shall be kept on site for minimum of five years and shall be presented 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.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P218 as well as its associated control devices (IDs C218C, C218D, C222C, and C222D) and monitoring equipment shall be operated and maintained in accordance with the manufacturer's specifications and in a manner consistent with good air pollution control practices for minimizing emissions.

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

Source ID P218 consists of Calciner #4, a Harper Electric model GU-30D180-RT-18, which incorporates six natural gas/propane-fired burners collectively rated at 1.80 MMBtu/hr of heat input.

The particulate matter emissions from Source ID P218 shall be controlled by the Scientific Dust Collector model SPJX4RT10 fabric collector (ID C218C) which incorporates a HEPA filter (ID C218D) in its exhaust duct. Additionally, control device IDs C218C and C218D shall be made of material that is capable of withstanding temperatures of at least 390°F.

The particulate matter emissions from the Calciner #4 dust bin and product bin associated with Source ID P218 shall be controlled by a Scientific Dust Collector model SPJ-X4RT10 dust collector (ID C222C) followed by a Sure Line Filter Housing model 26L06X04 HEPA filter (ID C222D).

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the air temperature shall not exceed 390°F in the inlet of the fabric collector (ID C218C).

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the Department reserves the right to establish a pressure drop range for the Scientific Dust Collector model SPJ-X4RT10 fabric collector (ID C218C) and HEPA filter (ID C218D) upon the issuance of an operating permit.

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

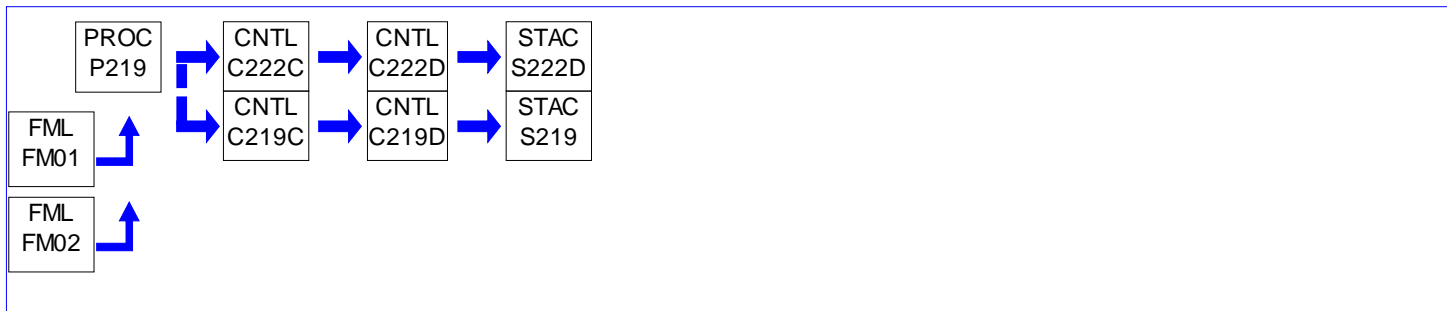
Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the opacity from the exhaust of control device ID C218D shall not exceed 5%.

**SECTION D. Source Level Requirements**

Source ID: P219

Source Name: CALCINER #5

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of sulfur oxides, expressed as SO₂, 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.

Source ID P219 shall only be fired on propane or pipeline-quality natural gas.

Control Device Efficiency Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Control Device IDs C219C and C219D shall have a combined control efficiency for filterable particulate matter of at least 99.5%.

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Control Device IDs C219C and C219D shall each be equipped with instrumentation to continuously monitor the pressure drop across the control device.

(b) The Department reserves the right to establish a pressure drop range for the dust collector and/or HEPA filter upon the issuance of an operating permit.

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

- (a) The permittee shall record the pressure drop across the dust collector (ID C219C) and the HEPA filter (ID C219D) at least once per operating day.
- (b) The permittee shall maintain records, including supporting calculations, as necessary to demonstrate compliance with the particulate matter emissions limitations.
- (c) These records shall be kept on site for a minimum of five years and shall be presented 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.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID P219 as well as its associated control devices (IDs C219C, C219D, C222C, and C222D) and monitoring equipment shall be operated and maintained in accordance with the manufacturer's specifications and in a manner consistent with good air pollution control practices for minimizing emissions.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Source ID P219 is a Harper Furnace model GU-30D180-RTA-20 tungsten carbide scrap calciner (Calciner #5) which incorporates six natural gas/propane-fired burners collectively rated at 1.80 MMBtu/hr of heat input. The particulate matter emissions from Calciner #5 shall be controlled by a Scientific Dust Collector model SPJ-X4RT10 dust collector (ID C219C) followed by a Sure Line Filter Housing model 26L06X04 HEPA filter (ID C219D).

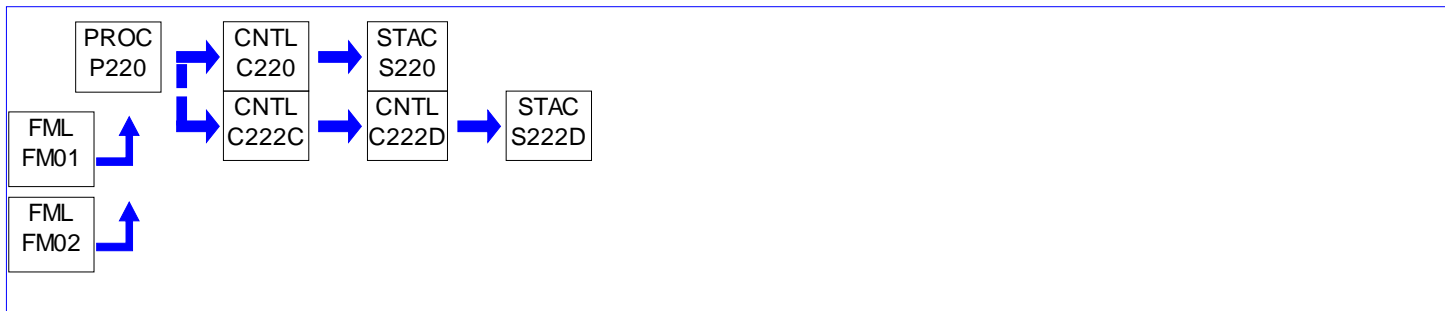
The particulate matter emissions from the Calciner #5 dust bin and product bin associated with Source ID P219 shall be controlled by a Scientific Dust Collector model SPJ-X4RT10 dust collector (ID C222C) followed by a Sure Line Filter Housing model 26L06X04 HEPA filter (ID C222D).

**SECTION D. Source Level Requirements**

Source ID: P220

Source Name: CALCINER #6

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P220 consists of a Harper Furnace model GU-30D180-RTA-18 tungsten carbide scrap calciner #6. The air contaminant emissions from Source ID P220 shall be controlled by a Mikro-Pulsaire model 100S 1020 TR fabric collector (ID C220).

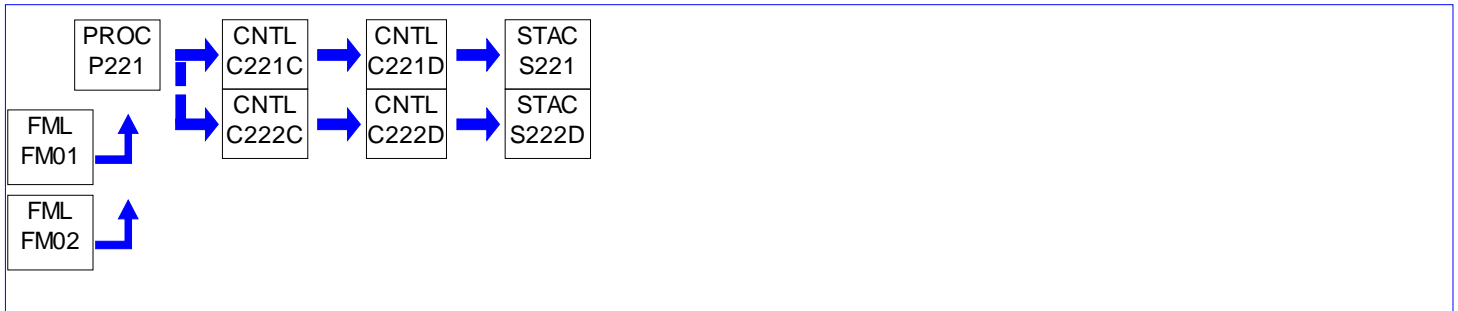
The particulate matter emissions from the Calciner #6 product bin associated with Source ID P220 shall be controlled by a Scientific Dust Collector model SPJ-X4RT10 dust collector (ID C222C) followed by a Sure Line Filter Housing model 26L06X04 HEPA filter (ID C222D).

**SECTION D. Source Level Requirements**

Source ID: P221

Source Name: CALCINER #7

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The total emissions of particulate matter (both filterable and condensable) from the exhaust of ID C221D associated with Source ID P221 shall not exceed 0.47 lbs/hr and 2.04 tons/year.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

Source ID P221 shall only be fired on natural gas or propane.

Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No more than 270 kg/hr of tungsten oxide may be produced in Source ID P221.

Control Device Efficiency Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

Control Device IDs C221C and C221D shall have a combined control efficiency for filterable particulate matter of at least 99.5%.

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

(a) Control Device IDs C221C and C221D shall each be equipped with instrumentation to continuously monitor the pressure drop across the control device.

(b) The Department reserves the right to establish a pressure drop range for the dust collector and/or HEPA filter upon the issuance of an operating permit.

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

(a) The permittee shall record the pressure drop across the dust collector (ID C221C) and the HEPA filter (ID C221D) at least once per operating day.

(b) The permittee shall maintain records, including supporting calculations, as necessary to demonstrate compliance with the particulate matter emissions and hourly throughput limitations.

(c) These records shall be kept on site for a minimum of five years and shall be presented 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.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Source ID P221 is a CresTechnologies 30" diameter tungsten scrap calciner (Calciner #7) which incorporates six natural gas/propane-fired burners collectively rated at 1.98 MMBtu/hr of heat input. The filterable particulate matter emissions from Source ID P221 shall be controlled by a Scientific Dust Collector model SPJ-X4RT10 dust collector (ID C221C) followed by a Sure Line Filter Housing model 26L06X04 HEPA filter (ID C221D).

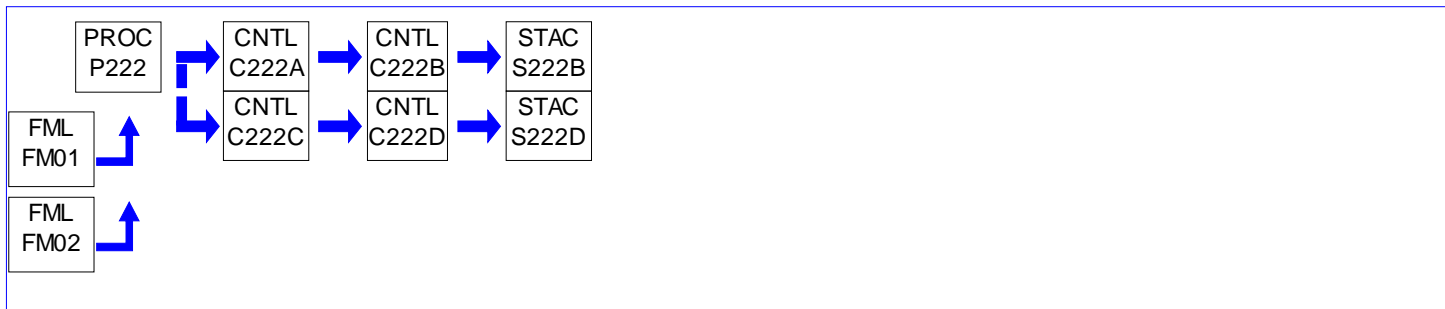
The particulate matter emissions from the Calciner #7 dust bin and product bin associated with Source ID P221 shall be controlled by a Scientific Dust Collector model SPJ-X4RT10 dust collector (ID C222C) followed by a Sure Line Filter Housing model 26L06X04 HEPA filter (ID C222D).

**SECTION D. Source Level Requirements**

Source ID: P222

Source Name: CALCINER #8

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

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

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

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

The total emissions of filterable particulate matter from the exhaust of ID C222D associated with Source ID P222 shall not exceed 0.36 lbs/hr and 1.58 tons/year.

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

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

The total emissions of particulate matter (both filterable and condensable) from the exhaust of ID C222B associated with Source ID P222 shall not exceed 0.38 lbs/hr and 1.64 tons/year.

Fuel Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

Source ID P222 shall only be fired on natural gas or propane.

Throughput Restriction(s).**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

No more than 1,500 lbs/hr of tungsten metal scrap may be processed in Source ID P222.

**SECTION D. Source Level Requirements****Control Device Efficiency Restriction(s).****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The concentration of filterable particulate matter in the effluent gas emitted into the ambient atmosphere through Stacks S222B and S222D shall not exceed 0.007 grains per dry standard cubic foot of gas.

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.**

(a) Control Device IDs C222A, C222B, C222C, and C222D shall each be equipped with instrumentation to continuously monitor the pressure drop across the control device.

(b) The Department reserves the right to establish a pressure drop range for the dust collectors and/or HEPA filters upon the issuance of an operating permit.

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

(a) The permittee shall record the pressure drop across the dust collectors (IDs C222A and C222C) and the HEPA filters (IDs C222B and C222D) at least once per operating day.

(b) The permittee shall maintain records, including supporting calculations, as necessary to demonstrate compliance with the particulate matter emissions and hourly throughput limitations.

(c) These records shall be kept on site for a minimum of five years and shall be presented 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.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

**SECTION D. Source Level Requirements**

Source ID P222 is a Harper 30" diameter tungsten scrap calciner (Calciner #8) which incorporates six natural gas/propane-fired burners with a collective maximum heat input capacity of 1.98 MMBtu/hr.

The filterable particulate matter emissions from Source ID P222 shall be controlled by a Scientific Dust Collector model SPJ-X4RT10 dust collector (ID C222A) followed by a Sure Line Filter Housing model 26L06X04 HEPA filter (ID C222B).

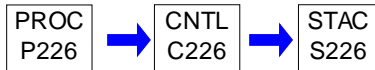
The particulate matter emissions from the Calciner #8 dust bin and product bin associated with Source ID P222 shall be controlled by a Scientific Dust Collector model SPJ-X4RT10 dust collector (ID C222C) followed by a Sure Line Filter Housing model 26L06X04 HEPA filter (ID C222D). Control Device IDs C222C and C222D will also control particulate matter emissions from the Calciner #4, #5, and #7 dust and product bins, the Calciner #6 product bin, and a tote discharge station.

**SECTION D. Source Level Requirements**

Source ID: P226

Source Name: D-4 RE-SLURRY TANK

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P226 is a reslurry tank D-4 (009-134).

**SECTION D. Source Level Requirements**

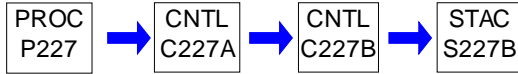
The air contaminant emissions from which shall be controlled by a Flex Kleen model 84 84CT30 fabric collector (009C) (control ID C226, 009-135).

**SECTION D. Source Level Requirements**

Source ID: P227

Source Name: THERMAL SPRAY AND ENERGY POWDER DEPARTMENT

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 a process 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.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the pre-controlled particulate matter and hazardous air pollutant emissions from the Progressive Technologies model HE-100 plasma gun (PMI gun #1, Source ID P227) shall not exceed 0.73 pounds per hour and 3.2 tons in any 12 consecutive month period. The equivalent controlled emissions are 2.1×10^{-6} lbs/hr and 9.2×10^{-6} tons in any 12 consecutive month period of particulate matter and hazardous air pollutants.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The pressure drop across the Farr-Tenkay model 30LS fabric collector (ID C227A) and final filter (ID C227B) shall be recorded at least once per operating shift and the records shall be retained on site for a minimum of five years.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of supporting calculations used to verify compliance with the particulate matter emission limitations for PMI gun #1. These records shall be retained for a minimum of five years and shall be presented to the Department upon request.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

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

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

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

Source ID P227 is approved to process nickel and nickel compounds.

The scrap scale (035-067) will process scrap metal that may include tungsten, molybdenum, nickel, chromium, cobalt, and zirconium.

PMI Gun #1 is approved to process the following materials and compounds made from the materials: tungsten, tungsten carbide, chromium, cobalt, and nickel.

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

Source ID P227 and Farr-Tenkay model 30LS fabric collector (ID C227A) and final filter (ID C227B) associated with Source ID P227 shall be operated according to good air pollution control practices.

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

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.**# 011 [25 Pa. Code §127.14]****Exemptions.**

The emissions from the scrap scale (035-067) shall remain below the limits specified in 25 Pa. Code Section 127.14(a)(8)(36) (as published in the Pa. Bulletin on July 26, 2003, document 275-2101-003).

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

Source ID P227 consists of the following metal powders processing equipment (pilot plant equipment) and the air contaminant emissions from Source ID P227 shall be controlled by the Farr-Tenkay model 30 LS cartridge collector (ID C227A, 035-027) and final filter (ID C227B, 035-033), operating in series, anytime the sources are operating:

035-007, PMI Gun #1
 035-008, PMI Gun #2
 035-009, PMI Gun #3
 035-012, #20 Furnace
 035-013, Vorti-Siv #2
 035-016, 30 Cubic Foot Double Cone Blender
 035-017, 10 Cubic Foot V-Blender
 035-018, 3 Cubic Foot V-Blender
 035-026, Vanguard Granulator House
 035-030, #1 Cyclotex Classifier
 035-032, Packaging Stand
 035-035, Floor Scales
 035-036, Spencer Vacuum Clean-out Station

**SECTION D. Source Level Requirements**

035-039, #2 Cyclotex Classifier
 035-040, Packout Table
 035-041, #1 Minox Sifter
 035-045, Sample Splitting Table
 035-046, Ross Mixer
 035-047, Hopper-to-hopper sifting drop
 035-049, #1 Union Process model 30s attritor mill
 035-053, Vorti-Siv #1
 035-054, Sand Shaker
 035-056, Workbench
 035-064, Kroosh 36" SXE-950 sifter #1
 035-065, Kroosh 36" SXE-950 sifter #2
 035-067, scrap scale
 037-001, Bulk Bag Unloader/ Tote Transfer Station
 037-002, Formulation Station
 037-003, Sample Splitter
 037-004, Packaging Station
 037-005, Energy Powders Kroosh Sifter #1
 037-006, Energy Powders Kroosh Sifter #2
 228-003 Mine Tool Equipment - Bussmann Press
 228-004 Mine Tool Equipment - Dorst Press

The air contaminant emissions from Source ID P227 shall be controlled by the Farr-Tenkay model 30LS fabric collector (ID C227A) and final filter (ID C227B) operating in series any time the sources are operating.

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

[Compliance with this permit requirement assures compliance with the provisions in 25 Pa. Code Section 123.41]

The exhausts associated with Source ID P227 (ID C227B) shall not exhibit any visible emissions (other than water vapor) at any time.

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

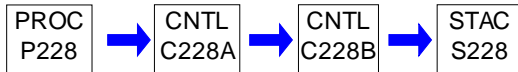
Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the air contaminant emissions from the Progressive Technologies model HE-100 plasma gun (PMI gun #1, Source ID P227) shall be controlled by the Farr-Tenkay model 30LS fabric collector (ID C227A) and final filter (ID C227B), in series, any time the plasma gun is operating. The fabric collector (ID C227A) and final filter (ID C227B), in series, shall maintain a control efficiency of at least 99.99% for particulate matter.

**SECTION D. Source Level Requirements**

Source ID: P228

Source Name: METAL PILOT PLANT, BLD 22

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any time the fabric bags of the Fuller Company model B, No. 7 fabric collector (ID C228A) are being shaken, the sources that exhaust to ID C228A may not be operated.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID C228 is approved to process nickel and nickel compounds.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

**SECTION D. Source Level Requirements****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

[Compliance with this permit requirement assures compliance with the provisions in 25 Pa. Code Section 123.41]

The exhaust associated with Source ID P228 (ID C228B) shall not exhibit any visible emissions (other than water vapor) at any time.

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

Source ID P228 consists of the following metal powders processing equipment (pilot plant equipment) and the air contaminant emissions from Source ID P228 shall be controlled by a Fuller model B, No. 7 fabric collector (ID P228A, 035-058) and a HEPA filter (ID C228B, 035-060), operating in series:

035-059, 4 cu.ft. Vacuum/Spray Chamber

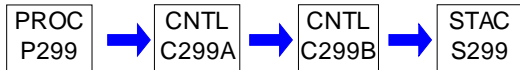
035-062, Plasma Densification Unit

**SECTION D. Source Level Requirements**

Source ID: P299

Source Name: TUNGSTEN OXIDE BLENDING EQUIPMENT

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P299 consists of the following tungsten oxide blending equipment:

**SECTION D. Source Level Requirements**

Unit ID	Company Designation
003-116	Komline-Sanderson 70 cubic foot double cone dryer/blender #2
003-118	stainless steel Paul O Abbe 130 cubic foot double cone blender
003-125	tungsten reduction Spencer Vacuum
003-155	weigh station
002	Simpactor

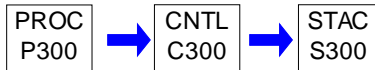
The particulate matter emissions from Source ID P299 shall be controlled by a Fuller-Kovako model 36D58 fabric collector (ID C299A, 003-126) and a Farr model XT242412 HEPA filter, or equivalent, (ID C299B,003-156).

**SECTION D. Source Level Requirements**

Source ID: P300

Source Name: TUNGSTEN/NICKEL POWDER SIFTING & GRANULATING EQUIP

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P300 consists of the following tungsten/nickel powder sifting and granulating equipment:

**SECTION D. Source Level Requirements**

Unit ID	Company Designation
003-058	sifter A (two drops)
003-059	sifter B
003-060	sifter 1
003-061	sifter 2
003-106	double cone blender
003-109	granulator in sift and blend room (two drop points)

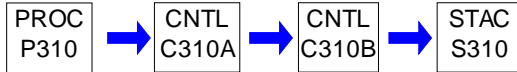
The particulate matter emissions from Source ID P300 shall be controlled by a Pangborn model 240 CR600 cartridge collector (ID C300, 003-122).

**SECTION D. Source Level Requirements**

Source ID: P310

Source Name: GRADE MIX POWDERS HANDLING EQUIP ASSOC W SPRAY DRYER #1 WEST

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P310 shall only process metal powders containing cobalt and powders containing up to 40% nickel and/or 95% chromium. Metal powders containing nickel in concentrations higher than 40% or chromium in concentrations higher than 95% or containing metals other than cobalt, nickel, and chromium which have been designated as hazardous air contaminants shall be approved by the Department prior to any processing of those materials.

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P310 consists of the following grade mix powder handling equipment associated with Spray Dryer #1 West:

048-001, PEA Model VC-18SD-9B-WCP cooling table

048-006, 4 attritor mills (100S) #1-4

048-004 Hartman auto packer

048-005 tote bin discharge station

048-007 granulator (Stokes 43-6)

048-010 revert station

048-011 vacuum system

048-022 Gemco Double Cone Blender

048-041 Formulation Station #1

048-042 Eriez Magnetic vibratory screener

The particulate emissions from Source ID P310 shall be controlled by a Flex Kleen Model 84 RA 80 fabric collector (ID C310A, 048-016) which incorporates a HEPA filter (ID C310B, 048-017).

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

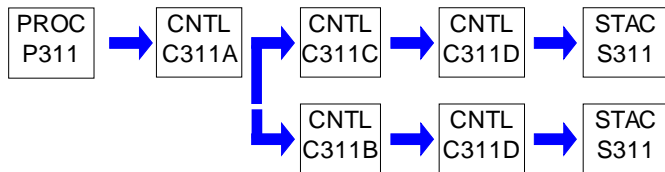
Source ID P310 and P312 are associated processes.

**SECTION D. Source Level Requirements**

Source ID: P311

Source Name: SPRAY DRYER #2

Source Capacity/Throughput:

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

[Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127 of Article III of the Rules and Regulations of the Department of Environmental Protection, the particulate matter concentration in the exhaust of the Camcorp 64S10 fabric collectors (prior to the exhaust entering the associated HEPA filter) shall not exceed 0.01 grains per dry standard cubic foot.

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

Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127 of Article III of the Rules and Regulations of the Department of Environmental Protection, no volatile organic compound shall be processed in the spray dryer at any time.

II. TESTING REQUIREMENTS.

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

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

Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127 of Article III of the Rules and Regulations of the Department of Environmental Protection, the spray dryer shall be equipped with instrumentation to continuously monitor the air inlet temperature.

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

The permittee shall keep records of the air inlet temperature to the spray dryer at least once per operating shift.

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

**SECTION D. Source Level Requirements**

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127 of Article III of the Rules and Regulations of the Department of Environmental Protection,

Source ID P311 is a custom 17-1/2 diameter Komline-Sanderson/company design spray dryer #2 (048-026) incorporating a 1.5 MMBtu per hour natural gas fired type NPIII model 62-20905 Maxon burner.

The air contaminant emissions from the spray dryer shall be controlled by an Emtrol model 24VL550 high efficiency cyclone (ID C311A, 048-027), 2 Camcorp model 64S10 reverse pulse fabric collectors (IDs C311B & C311C, 048-028) (only one of which needs to be in use at any given time) and a 12" x 24" Purolator model UCGLV99-24024012-XBU-GND-GU-00, or equivalent, HEPA filter (ID C311D, 048-029) operating in series.

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

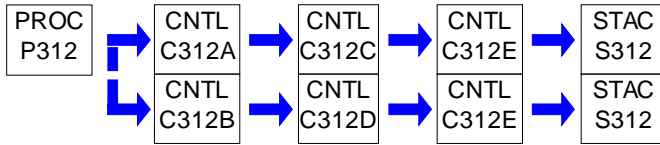
Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127 of Article III of the Rules and Regulations of the Department of Environmental Protection, the spray dryer's air inlet temperature shall not exceed 425°C.

**SECTION D. Source Level Requirements**

Source ID: P312

Source Name: SPRAY DRYER #1

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

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

The Komline-Sanderson spray dryer is approved to process metal powders containing up to 40% nickel and/or 95% chromium. Metal powders containing chromium in concentration greater than 95% or containing metals other than chromium which have been designated as hazardous air contaminants must be approved by the Department prior to processing.

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

Control Device IDs C312A and C312B shall be equipped with instrumentation to continuously monitor the pressure drop across each cyclone. The pressure drop across each cyclone shall be recorded at least once per operating shift.

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

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

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

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P312 as well as its associated control devices and monitoring equipment shall be operated and maintained in accordance with the manufacturer's specifications and in a manner consistent with good air pollution control practices for minimizing emissions.

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

Source ID P310 and P312 are associated processes.

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

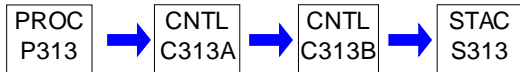
Source ID P312 consists of a Komline-Sanderson spray dryer (048-012) located in Building 28A, the air contaminant emissions from which shall be controlled by 2 Ducon VME size 70 cyclones (IDs C312A and C312B), 2 Mikropul 64 s-10 fabric collectors (C312C & C312D) (only one of each which needs to be operated at any given time) and a final filter (C312E).

**SECTION D. Source Level Requirements**

Source ID: P313

Source Name: GRADE POWDERS EQUIPMENT ASSOC W SPRAY DRYER #2 EAST

Source Capacity/Throughput:

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

[Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127 of Article III of the Rules and Regulations of the Department of Environmental Protection, the particulate matter concentration in the exhaust of the Beckert & Hiester model 8-979-64-120S-BL-3G fabric collector (prior to the exhaust entering the associated HEPA filter) shall not exceed 0.01 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Pursuant to the best available technology provisions of Sections 127.1 and 127.12 of Chapter 127 of Article III of the Rules and Regulations of the Department of Environmental Protection,

Source ID P313 consists of the following hard metal grade powder production equipment associated with Spray Dryer #2:

048-032, Hartman Packer for Spray Dryer # 2

048-037, Formulation Area # 2

048-038, Cooling Table for # 2 Spray Dryer (PEA VC-18SD-9B-WCP)

048-039, Double Cone Blender for Dryer # 2 (Paul O. Abbe model RCB-36 rota-cone blender)

048-040, Attritor Mills 1-4 for Spray Dryer # 2 (4 Union Process model 100 SC attritor mills)

The air contaminant emissions from Source ID P313 shall be controlled by a Beckett & Hiester model 8-979-64-120S-BL-3G fabric collector (ID C313A, 048-033) and a HEPA filter (ID C313B, 048-034), operating in series.

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

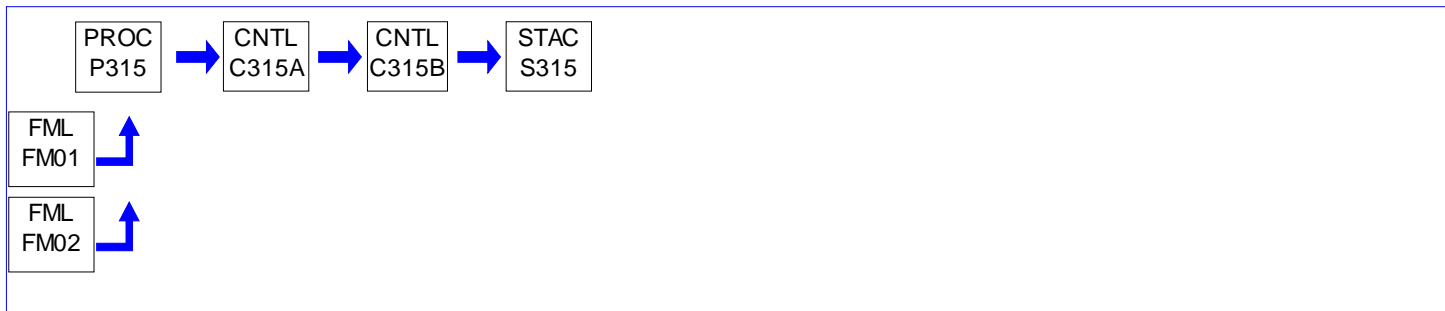
Source ID P313 shall only process metal powders containing cobalt and powders containing up to 40% nickel and/or 95% chromium. Metal powders containing nickel in concentrations higher than 40% or chromium in concentrations higher than 95% or containing metals other than cobalt, nickel, and chromium which have been designated as hazardous air contaminants shall be approved by the Department prior to any processing of those materials.

**SECTION D. Source Level Requirements**

Source ID: P315

Source Name: APT CALCINER #1

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

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

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and shall monitor the scrubbing medium flow rate through each scrubber.

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

Each scrubber shall be equipped with instrumentation which continuously monitors the pressure drop across the scrubber, and the permittee shall monitor the pressure drop across the scrubber.

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

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

The permittee shall record the pressure drop across each scrubber at least once per operating shift.

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

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

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

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

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The ammonia scrubbers associated with the aforementioned calciner shall use water, on a once through basis, as a scrubbing medium.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The scrubbing medium, cooling water, and heat exchanger flow rates associated with the scrubbing system shall be at a minimum of 35 gallons per hour, 4 gallons per minute, and 4 gallons per minute, respectively.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

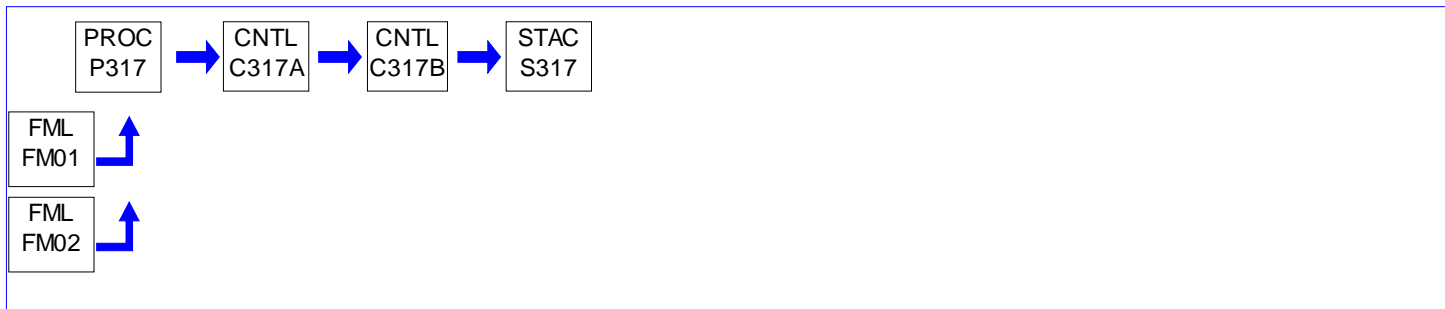
Source ID P315 is an ammonium paratungstate Bartlett & Snow 18" Calciner #1 (003-111) and the air contaminant emissions from which shall be controlled by a Mikropul model UFS-80 fabric collector (002A, ID C315A, 003-127) and an ammonia scrubber (002H, ID C315B, 003-140), operating in series.

**SECTION D. Source Level Requirements**

Source ID: P317

Source Name: APT CALCINER #3

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and shall monitor the scrubbing medium flow rate through each scrubber.

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

Each scrubber shall be equipped with instrumentation which continuously monitors the pressure drop across the scrubber, and the permittee shall monitor the pressure drop across the scrubber.

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

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

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

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

The permittee shall record the pressure drop across each scrubber at least once per operating shift.

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

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

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

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

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The ammonia scrubbers associated with the aforementioned calciner shall use water, on a once through basis, as a scrubbing medium.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The scrubbing medium, cooling water, and heat exchanger flow rates associated with the scrubbing system shall be at a minimum of 50 gallons per hour, 4 gallons per minute, and 4 gallons per minute, respectively.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

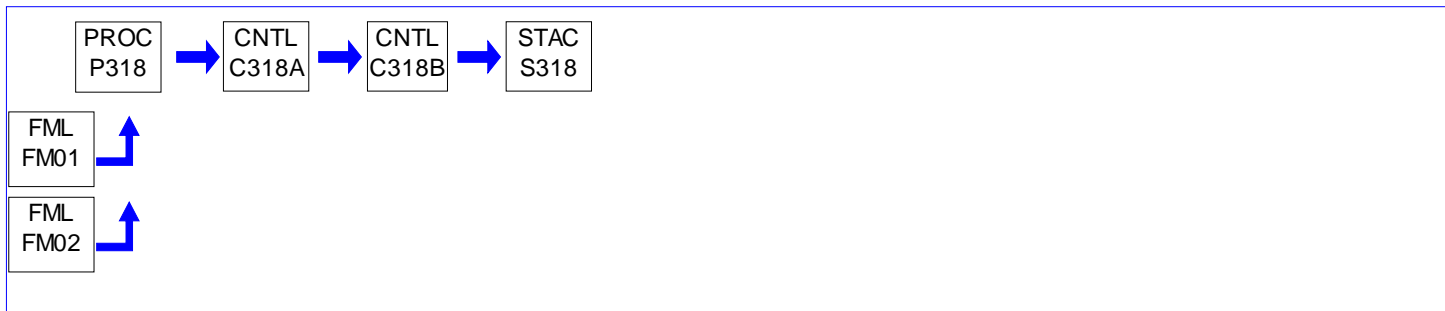
Source ID P317 is an ammonium paratungstate C.E. Process Equipment 24" Calciner #3 (003-112) and the air contaminant emissions from which shall be controlled by a Mikropul UFSW-160 fabric collector (ID C317A, 003-128) and an ammonia scrubber (002F, ID C317B, 003-141), operating in series.

**SECTION D. Source Level Requirements**

Source ID: P318

Source Name: APT CALCINER #4

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

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

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and shall monitor the scrubbing medium flow rate through each scrubber.

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

Each scrubber shall be equipped with instrumentation which continuously monitors the pressure drop across the scrubber, and the permittee shall monitor the pressure drop across the scrubber.

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

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

The permittee shall record the pressure drop across each scrubber at least once per operating shift.

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

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

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

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

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The ammonia scrubbers associated with the aforementioned calciner shall use water, on a once through basis, as a scrubbing medium.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The scrubbing medium, cooling water, and heat exchanger flow rates associated with the scrubbing system shall be at a minimum of 50 gallons per hour, 4 gallons per minute, and 4 gallons per minute, respectively.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

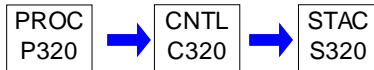
Source ID P318 is an ammonium paratungstate Bethlehem Steel 24" Calciner #4 (003-113) and the air contaminant emissions from which shall be controlled by a Mikropul UFS-160 fabric collector (ID C318A, 003-129) and a packed tower ammonia scrubber (002I, ID C318B, 003-142), operating in series.

**SECTION D. Source Level Requirements**

Source ID: P320

Source Name: AMMONIA BULK STORAGE TANKS & ASSOCIATED UNLOADING 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.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Each scrubber with a pH requirement shall be equipped with instrumentation which continuously monitors the pH of the scrubbing medium through the scrubber, and shall monitor the pH of the scrubber.

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

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and the permittee shall monitor the scrubbing medium flow rate through each scrubber.

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

The permittee shall record the pH of the scrubbing medium for each scrubber with a pH requirement at least once per operating shift.

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

The permittee shall record the specific gravity of the Heil 731-X scrubber (ID C320).

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

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

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 Heil scrubber (ID C320) shall utilize a phosphoric acid solution as the scrubbing medium.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the Heil 731-X scrubber

**SECTION D. Source Level Requirements**

(ID C320) shall be operated in accordance with the following parameters:

Scrubber solution: Range:

- a. pH less than or equal to 6.8
- b. Flow rate greater than or equal to 5 GPM

Additionally, the scrubber shall be equipped with instrumentation to monitor the above referenced parameters.

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

Source ID P320 consists of the following bulk storage tanks and associated load out operations:

- (2) 16,000-gallon aqua ammonia storage tanks
- (1) 18,900-gallon aqua ammonia storage tank
- (1) 23,800-gallon aqua ammonia storage tank
- (1) Ammonia Railcar load out operation
- (1) Ammonia Truck load out operation

The air contaminant emissions from which shall be controlled by a Heil 731-X countercurrent packed bed scrubber (ID C320, 320-004).

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

The use of the Heil 731-X countercurrent packed bed scrubber (ID C320) is required pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12.

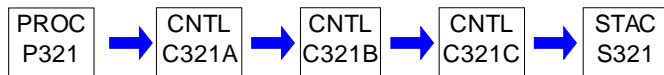
Each of the four ammonium hydroxide storage tanks associated with Source ID P320 shall also be equipped with conservation vents which shall be set to open at not less than 15 psig. These conservation vents are to be vented to the Heil 731-X countercurrent packed bed scrubber (ID C320).

**SECTION D. Source Level Requirements**

Source ID: P321

Source Name: BULK STORAGE TANKS AND ASSOCIATED LOAD OUT OPERATIONS (2)

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

The Acid Tank Farm and Unloading Operations scrubbing system shall be equipped with instrumentation that continuously monitors pH of the scrubbing medium used for both scrubbers, and shall monitor the pH of the scrubbing solution.

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

The Croll-Reynolds Venturi Scrubber (ID C321A) shall be equipped with instrumentation which continuously monitors the pressure drop across the scrubber, and the permittee shall monitor the pressure drop across the scrubber.

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

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and the permittee shall monitor the scrubbing medium flow rate through each scrubber.

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

The permittee shall record the pH of the scrubbing medium for the Acid Tank Farm and Unloading Operations scrubbing system at least once per operating shift.

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

The permittee shall record the pressure drop across the Croll-Reynolds Venturi Scrubber (ID C321A) at least once per operating shift.

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

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the Croll Reynolds model 88-20HE venturi scrubber (ID C321A) shall be operated with a scrubbing solution flow rate set point of no less than 7.5 GPM and the actual scrubbing solution flow rate, measure at the inlet of the scrubber, shall never be less than 6.0 GPM. The respective scrubber shall additionally be operated with a differential pressure set point of no less than 30 inches w.c. and the actual differential pressure measured across the scrubber shall never be less than 28 inches w.c.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the Heil model 732-P packed bed scrubber (ID C321B) shall be operated with a scrubbing solution flow rate set point of no less than 19.0 GPM and the actual scrubbing solution flow rate, measured at the inlet of the scrubber, shall never be less than 17.0 GPM.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, only one of the two hydrochloric acid railcar unloading systems, associated with Source ID P321, shall be in use at any given time.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, both the Croll Reynolds venturi scrubber (ID C321A) and the Heil 732-P scrubber (ID C321B) shall use a caustic scrubbing solution. The pH adjustment system associated with these scrubbers shall be operated with a pH set point of no less than 8.5 and the actual pH of the scrubbing solution, measured at the inlet of the scrubbers, shall never be less than 7.0.

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

Source ID P321 consists of the following bulk storage tanks and associated load out operations:

- 322-001, Sulfuric Acid Tank (#044), 20,000 gallon
- 320-002, Hydrochloric Acid Tank, 25,000 gallon
- 321-003, Hydrochloric acid railcar unloading system 1 associated with these units
- 321-004, Hydrochloric acid railcar unloading system 2 associated with these units
- 322-002, Sulfuric Acid Tank #2, 25,000 gallons

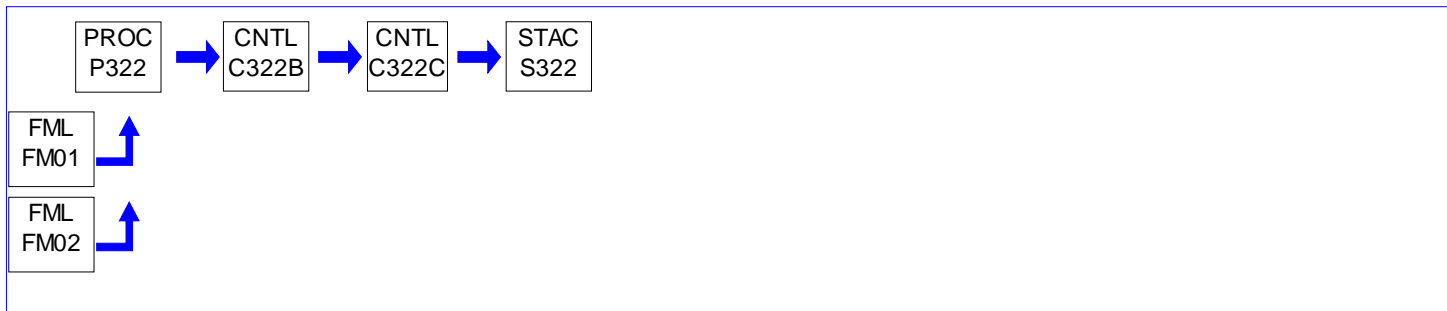
The air contaminant emissions from these storage tanks and associated unloading system shall be controlled with a Croll Reynolds #88-20HE venturi scrubber (ID C321A, 321.005), a packed bed scrubber (Heil Process Equipment Co. model 732-P) (ID C321B, 321-006), and a CECO coalescing filter (ID C321C, 321-007), operating in series.

**SECTION D. Source Level Requirements**

Source ID: P322

Source Name: APT CALCINER #5

Source Capacity/Throughput:

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

[Compliance with this streamlined requirement assures compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the particulate matter emissions from the exhaust of the Fisher Klosterman scrubber (ID C322C) associated with Source ID P322 and ID C322B shall not exceed 0.01 grains per dry standard cubic foot.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the ammonia emissions from the exhaust of ID C322C associated with Source ID P322 and ID C322B shall not exceed 0.18 pounds per hour and 0.80 tons in any 12 consecutive month period.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P322 shall only be fired on natural gas or propane.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the Fisher Klosterman Inc. model PBS-120 packed bed scrubber (ID C322C) shall have a minimum control efficiency for ammonia of 99.5%.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall equip control device ID C322C with instrumentation to continuously monitor the water injection rate for the quench section and packed bed section of ID C322C and shall monitor the water injection rates for the quench section and packed bed

**SECTION D. Source Level Requirements**

section of ID C322C on a continuous basis.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each scrubber shall be equipped with instrumentation which continuously monitors the scrubbing medium flow rate through each scrubber, and shall monitor the scrubbing medium flow rate through each scrubber.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each scrubber shall be equipped with instrumentation which continuously monitors the pressure drop across the scrubber, and the permittee shall monitor the pressure drop across the scrubber.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The water injection rate for the quench section and the packed bed section of ID C322C shall be recorded at least once per day and retained on site for a minimum of five years and be presented to the Department upon request.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the scrubbing medium flow rate for each scrubber at least once per operating shift.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each scrubber at least once per operating shift.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

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.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The pressure drop across control device ID C322C shall remain between zero and four inches of water column.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

**SECTION D. Source Level Requirements****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

[Compliance with this streamlined requirement assures compliance with the provisions of 25 Pa. Code Section 123.41]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the opacity from the exhaust of ID C322C associated with Source ID P322 shall not exceed five percent (5%) at any time.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID P322 is a Harper International model GU-30D240-RTA-WC-19 natural gas/propane fired rotary calciner (Calciner #5, 002-001).

The air contaminant emissions from Source ID P322 shall be controlled by a Fisher Klosterman Inc. model FKT-30-88-7 fabric collector (ID C322B, 002-003) and a Fisher Klosterman Inc. model PBS-120 packed bed scrubber (ID C322C, 002-004) operating in series.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

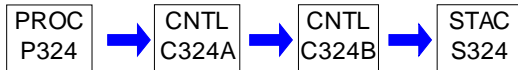
Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the water injection rate for the quench section and packed bed section of the Fisher Klosterman Inc. model PBS-120 packed bed scrubber (ID C322C) associated with Source ID P322 shall be at a minimum 1.6 gallons per minute and 3.5 gallons per minute respectively. In addition, the water shall be circulated only on a once through basis.

**SECTION D. Source Level Requirements**

Source ID: P324

Source Name: APT CALCINER #6

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The emissions of particulate matter from the exhaust of ID C324B associated with Source ID P324 shall not exceed 0.019 lbs/hr and 0.083 tons/year.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The emissions of ammonia from the exhaust of ID C324B associated with Source ID P324 shall not exceed 0.29 lbs/hr and 1.25 tons/year.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No more than 550 kg/hr of tungsten oxide may be produced in Source ID P324.

Control Device Efficiency Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The particulate matter emissions from the exhaust of the Camcorp model 3BH6x9 model dust collector (ID C324A) associated with Source ID P324 shall not exceed 0.01 grains per dry standard cubic foot.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The Bionomic Industries Series 5000 Model 4 Countercurrent Packed Tower Scrubber (ID C324B) shall have a control efficiency for ammonia of at least 99.5%.

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.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Control Device ID C324A shall be equipped with instrumentation to continuously monitor the pressure drop across the dust collector.

**SECTION D. Source Level Requirements**

(b) The Department reserves the right to establish a pressure drop range for the dust collector upon the issuance of an operating permit.

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

(a) Control Device ID C324B shall be equipped with instrumentation to continuously monitor the pressure drop across the packed tower scrubber and the scrubbing fluid flow rate.

(b) The scrubbing fluid flow rate shall be maintained at greater than 4.0 gallons per minute on any occasion that Source ID P324 is operating.

(c) The Department reserves the right to modify the scrubbing fluid flow range for the packed tower scrubber upon the issuance of an operating permit.

(d) The Department reserves the right to establish a pressure drop range for the packed tower scrubber upon the issuance of an operating permit.

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

(a) The permittee shall record the pressure drop across the dust collector (ID C324A) at least once per operating day.

(b) The permittee shall record the pressure drop across the packed tower scrubber (ID C324B) and the scrubbing fluid flow rate at least once per operating shift.

(c) The permittee shall maintain records, including supporting calculations, as necessary to demonstrate compliance with the particulate matter emissions, ammonia emissions, and tungsten oxide throughput limitations.

(d) These records shall be kept on site for a minimum of five years and shall be presented 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.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall keep on hand sufficient quantity of spare fabric collector bags for ID C324A in order to be able to immediately replace any bag requiring replacement.

(b) Any air compressor used to provide compressed air to ID C324A shall be equipped with an air dryer and an oil trap.

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

Source ID P324 is a Elinco Model Tr-095/070/023-11EW.OL electric rotary calciner (APT Calciner #6) which is used to convert ammonium paratungstate powder into tungsten oxide.

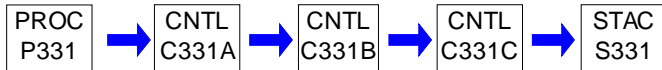
The particulate matter emissions from Source ID P324 shall be controlled by a Camcorp model 3BH6x9 dust collector (Control ID C324A). Ammonia emissions from Source ID P324 shall be controlled by a Bionomic Industries Series 5000 Model 4 Countercurrent Packed Tower Scrubber (Control ID C324B) which utilizes water as the scrubbing fluid.

**SECTION D. Source Level Requirements**

Source ID: P331

Source Name: R&D SPRAY DRYER

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.31]

Limitations

No person may permit the emission into the outdoor atmosphere of particulate matter from a process 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.

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the concentration of particulate matter in the exhaust from the dust collector (ID C331B) associated with Source ID P331 shall not exceed 0.007 grains per dry standard cubic foot.

Throughput Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No more than 132 lb/hr of slurry may be processed in Source ID P331.

Control Device Efficiency Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the HEPA filter (ID C331C) associated with Source ID P331 shall maintain a control efficiency of at least 99.97% for particulate matter.

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Control Device IDs C331B and C331C shall each be equipped with instrumentation to continuously monitor the pressure drop across the control device.

(b) The Department reserves the right to establish a pressure drop range for the dust collector and/or HEPA filter upon the issuance of an operating permit.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall record the pressure drop across the dust collector (ID C331B) and the HEPA filter (ID C331C) at least once per operating shift.

(b) The permittee shall maintain records, including supporting calculations, as necessary to demonstrate compliance with

**SECTION D. Source Level Requirements**

the particulate matter emissions and hourly throughput limitations.

(c) These records shall be kept on site for a minimum of five years and shall be presented 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.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P331 consists of the following equipment:

227-001, Refractory Powders R&D Niro Atomizing Spray Dryer

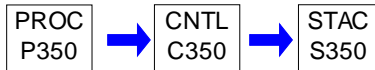
The air contaminant emissions from the R&D Spray Dryer shall be controlled by a Henlex model CHE-300 cyclone collector (ID C331A), a Scientific Dust Collector model SPJ-18-X4B8 dust collector (ID C331B) and a XH Absolute model 01XH-24Z24Z12 HEPA filter (ID C331C), in series.

**SECTION D. Source Level Requirements**

Source ID: P350

Source Name: TUNGSTEN CARBIDE AND MICRO-GRAIN TUNGSTEN CARBIDE EQUIPMENT

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P350 consists of the following tungsten carbide and micro-grain tungsten carbide equipment located in building

**SECTION D. Source Level Requirements**

28:

043-001 carburizing furnace (furnace #8)

043-049 QC lab surface grinder

043-050 QC lab belt grinder

043-051 4"x4" Toledo floor scale

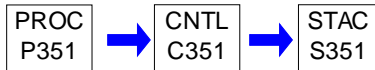
The air contaminant emissions from Source ID P350 shall be controlled by a Farr Tenkay 30LS cartridge collector (28N), ID C350, (043-042).

**SECTION D. Source Level Requirements**

Source ID: P351

Source Name: TUNGSTEN CARBIDE AND MICRO-GRAIN TUNGSTEN CARBIDE EQUIPMENT

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.31]

Limitations

No person may permit the emission into the outdoor atmosphere of particulate matter from a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.14]

Exemptions.

The emissions from the loading & unloading station for the micrograin furnace (043-071 & 043-072) shall remain below the

**SECTION D. Source Level Requirements**

limits specified in 25 Pa. Code Section 127.14(a)(8)(36).

007 [25 Pa. Code §127.14]**Exemptions.**

The emissions from the tungsten carbide powder Eriez Vibratory Feeder/Packer (043-036) remain below the limits specified in 25 Pa. Code Section 127.14(a)(8)(36) (as published in the Pa. Bulletin on July 26, 2003, document 275-2101-003).

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

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the fugitive emissions from the jet mill loading and unloading operation, associated with Source ID P354, shall be controlled by Farr Tenkay 30LS cartridge collector (exhaust ID 28J), ID C351 (associated with Source ID P351).

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

Source ID P351 consists of the following tungsten carbide and micro-grain tungsten carbide equipment located in building 28:

043-009, Carburizing furnace #11
043-021, Paul O. Abbe 79ft³ ball mill #6
043-020, Crossley 60ft³ ball mill #5
043-022, Ball Mill #7
043-023, Ball Mill #8
043-035, Paul O. Abbe 60 ft³ blender
043-036, tungsten carbide powder Eriez Vibratory Feeder/Packer
043-055, Tote bin transfer station
043-056, Alpine jet mill
043-057, Weigh station
043-071, Loading station for micrograin furnace
043-072, Unloading station for micrograin furnace

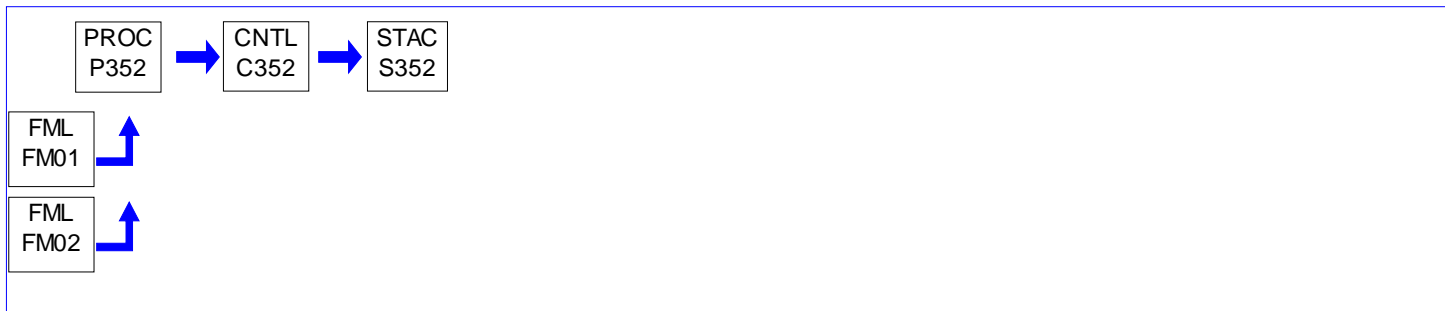
The air contaminant emissions from Source ID P351 shall be controlled by a Farr Tenkay 30LS cartridge collector (28J), ID C351 (043-043).

**SECTION D. Source Level Requirements**

Source ID: P352

Source Name: TUNGSTEN CARBIDE AND MICRO-GRAIN TUNGSTEN CARBIDE EQUIPMENT

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P352 consists of the following tungsten carbide and micro-grain tungsten carbide equipment located in building 22:

043-005, #6 furnace boat unloading station
043-005, #6 furnace boat loading station
043-024, Ball Mill #1
043-027, Paul O. Abbe ball mill #4
043-039, Spencer vacuum
043-061, west weigh station

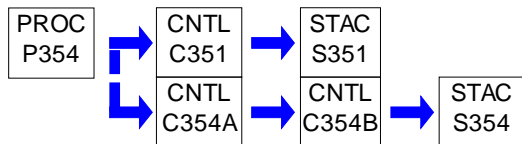
The air contaminant emissions from Source ID P352 shall be controlled by a Torit Products model DFT3-18 reverse air jet cartridge collector (ID C352, 043-045).

**SECTION D. Source Level Requirements**

Source ID: P354

Source Name: TUNGSTEN CARBIDE JET MILL

Source Capacity/Throughput:

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

[Compliance with this condition assures compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the particulate matter in the exhaust of the absolute filter (ID C354B) shall not exceed 0.01 grains per dry standard cubic foot of exhaust.

II. TESTING REQUIREMENTS.

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

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

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

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

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

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

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the jet mill shall not process anything other than tungsten carbide without prior Department approval.

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

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

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

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

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

Source ID P354 consists of a Hosakawa Model No. 400AFG tungsten carbide jet mill #3, (043-065). The particulate matter emissions from Source ID P354 shall be controlled by a Hosakawa Micron Model 31-8-100 fabric collector, ID C354A (043-066), and Farr highcapacity, or equivalent, absolute filter, ID C354B (043-067), (exhaust ID 28Q) operating in series.

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

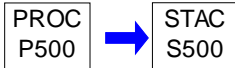
Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the fugitive emissions from the jet mill loading and unloading operation, associated with Source ID P354, shall be controlled by Farr Tenkay 30LS cartridge collector (exhaust ID 28J), ID C351 (associated with Source ID P351).

**SECTION D. Source Level Requirements**

Source ID: P500

Source Name: S-7 PERRY EVAP.

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.21]

General

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

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.

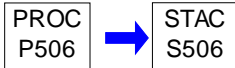
Source ID P500 consists of (001-024) evaporator S-7.

**SECTION D. Source Level Requirements**

Source ID: P506

Source Name: BLDG 10 DIESEL GENERATOR

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of sulfur oxides, expressed as SO₂, 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 diesel fuel for the diesel fired generator engine.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The hours of operation of the each engine shall not exceed 500 hours in any 12 consecutive month period (12CMP).

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.

The permittee shall keep accurate and comprehensive records of the hours of operation on a monthly basis of each engine to verify compliance with hours of operation limitation.

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.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P506 consists of (111-001) Building 10 Cummins Diesel generator model DFY-4XR/18794D.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**What is the purpose of subpart ZZZZ?**

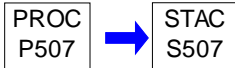
The engine is subject to 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines (RICE). The permittee shall comply with all applicable requirements specified in 40 CFR Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P507

Source Name: BLDG 25 DIESEL GENERATOR

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of sulfur oxides, expressed as SO₂, 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 diesel fuel for the diesel fired generator engine.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The hours of operation of the each engine shall not exceed 500 hours in any 12 consecutive month period (12CMP).

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.

The permittee shall keep accurate and comprehensive records of the hours of operation on a monthly basis of each engine to verify compliance with hours of operation limitation.

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.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P507 consists of (111-002) Building 25 Cummins Diesel generator model NTA855-G5.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**What is the purpose of subpart ZZZZ?**

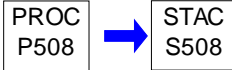
The engine is subject to 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines (RICE). The permittee shall comply with all applicable requirements specified in 40 CFR Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P508

Source Name: WELL #11 DIESEL GENERATOR

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emissions from the exhaust of the Source ID P508 engine shall not exceed the following emissions limitations: Non-methane Hydrocarbons (NMHC) + Nitrogen Oxides (NO_x), 2.62 g/bhp-hr; HC, 0.04 tons/12CMP; NO_x, 0.75 tons/12CMP; Carbon Monoxide (CO), 0.87 g/bhp-hr and 0.26 tons/12CMP; Particulate Matter (PM), 0.14 g/bhp-hr and 0.04 tons/12CMP; Sulfur Oxides (SO_x), 0.02 tons/12CMP

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use diesel fuel for the diesel fired generator engine.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The hours of operation of the each engine shall not exceed 500 hours in any 12 consecutive month period (12CMP).

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.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep accurate and comprehensive records of the hours of operation on a monthly basis of each engine to verify compliance with hours of operation limitation.

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

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source ID P508 consists of (111-005) Well #11 550 hp Detroit Diesel model 6063HV35 engine and associated Penn Power Systems generator model 350RXC6DT3.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****Am I subject to this subpart?**

The engine is subject to the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60 Subpart IIII). Permittee shall comply with all applicable requirements specified in 40 CFR Sections 60.4200 through 60.4219.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What is the purpose of subpart ZZZZ?**

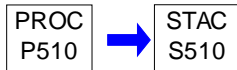
The engine is subject to 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines (RICE). The permittee shall comply with all applicable requirements specified in 40 CFR Sections 63.6580 through 63.6675.

**SECTION D. Source Level Requirements**

Source ID: P510

Source Name: AMMONIA ABSORBER

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

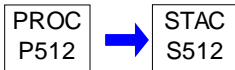
Source ID P510 consists of (340-013) an Ammonia absorber.

**SECTION D. Source Level Requirements**

Source ID: P512

Source Name: BUILDING 25 GENERATOR #83

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

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

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

Pursuant to the Best Available Technology requirement of 25 Pa. Code §§ 127.1 and 127.12, the permittee shall operate Source ID P512 in a manner such that the rate of emissions do not exceed the following limitations:

- (i) Nitrogen Oxides (NO_x) - 6.9 gm/bhp-hr
- (ii) Carbon Monoxide (CO) - 2.0 gm/bhp-hr
- (iii) Particulate Matter (PM) - 0.4 gm/bhp-hr
- (iv) Total Hydrocarbons (THC) - 1.0 gm/bhp-hr

These limitations apply at all times except during periods of start-up and shut-down, provided, however, that the duration of start-up and shut-down do not exceed one hour per occurrence.

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

Pursuant to the Best Available Technology requirement of 25 Pa. Code §§ 127.1 and 127.12, visible emissions from the stack (S512) associated with Source ID P512 shall not exceed the following limitations:

- (1) Equal to or greater than 10% for a period or periods aggregating more than three minutes in any 1 hour.
- (2) Equal to or greater than 30% at any time.

These limitations apply at all times except during periods of start-up and shut-down, provided, however, that the duration of start-up and shut-down do not exceed one hour per occurrence.

Fuel Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with the requirements of this streamlined permit condition will assure compliance with the provisions of 25 Pa. Code § 123.22(a)(2) and 40 CFR § 60.4207, as well as the Best Available Technology requirement of 25 Pa. Code §§ 127.1 and 127.12]

- (a) Source ID P512 shall only be fired on virgin diesel fuel or #2 fuel oil to which no reclaimed or reporecessed oil or other waste materials have been added. Additionally, the sulfur content shall not, at any time, exceed 0.0015% (by weight).
- (b) The diesel fuel fired in Source ID P512 shall comply with one of the following per-gallon standards:
 - (i) A minimum cetane index of 40; or

**SECTION D. Source Level Requirements**

(ii) A maximum aromatic content of 35 volume percent.

Operation Hours Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the Best Available Technology requirement of 25 Pa. Code §§ 127.1 and 127.12, operation of Source ID P512 shall not equal or exceed 1,200 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

a) Within 12 months of the previous stack test performed on Source ID P512, the permittee shall perform NO_x emissions tests using a portable analyzer approved by the Department. The Department may alter the frequency of annual portable analyzer tests based on the results. The Department may also waive all or parts of this requirement if the permittee demonstrates compliance, in lieu of testing, through alternate means satisfactory to the Department.

b) The frequency of portable analyzer testing may be reduced to one test every 36 months provided Source ID P512 is operated less than 500 hours in any 12 consecutive month period.

c) The Department reserves the right to require stack tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests. The purpose of this testing is to demonstrate compliance with the emission limitations required for new engines.

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.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain accurate records, which, at a minimum, shall include:

a) The number of hours per calendar year that Source ID P512 operated using a non-resettable hour meter.

b) The amount of fuel used per calendar year in Source ID P512.

c) Records of testing including a description of testing methods, results, all engine operating data collected during testing and a copy of the calculations performed to determine compliance with emission standards.

d) Copies of the test report that demonstrates that Source ID P512 was operating at rated brake horsepower and rated speed conditions during performance testing.

These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. The Department reserves the right to expand the list contained in this condition as it may reasonably prescribe pursuant to the provisions of Section 4 of the Pennsylvania Air Pollution Control Act (35 P. S. §§4004), and as it may deem necessary to determine compliance with any condition contained in this operating permit.

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

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

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

Source ID P512 shall be operated and maintained in a manner consistent with good operating and maintenance practices as well as with the manufacturer's specifications.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

[Additional authority for this condition is also derived from 40 CFR §60.4204(b)]

Source ID P512 shall be certified to the emission standards for new nonroad CI engines in 40 CFR Part 1039, as applicable, for all pollutants, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g).

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

The reciprocating internal combustion engine included in Source ID P512 is subject to the requirements of 40 CFR Part 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of 40 CFR §§60.4200 - 60.4219 for Source ID P512.

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

The reciprocating internal combustion engine included in Source ID P512 is subject to 40 CFR Part 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Pursuant to 40 CFR §63.6590(c)(1), the permittee shall meet the requirements of Subpart ZZZZ through compliance with the requirements of 40 CFR Part 60 Subpart IIII. No further requirements apply for Source ID P512 under Subpart ZZZZ.

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

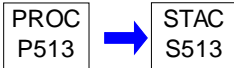
Source ID P512 is a 350 kW generator powered by a 547 bhp MTU model 8V1600 diesel-fired engine located in Building 25.

**SECTION D. Source Level Requirements**

Source ID: P513

Source Name: BUILDING 20 GENERATOR #81

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

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

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

The permittee shall operate Source ID P513 in a manner such that the rate of emissions do not exceed the following limitations:

- (i) Nitrogen Oxides (NO_x) - 2.8 gm/bhp-hr, 2.75 tons per ozone season, and 6.6 tons in any 12 consecutive month period.
- (ii) Carbon Monoxide (CO) - 0.8 gm/bhp-hr and 0.09 tons in any 12 consecutive month period.
- (iii) Particulate Matter (PM) - 0.11 gm/bhp-hr and 0.01 tons in any 12 consecutive month period.
- (iv) Total Hydrocarbons (THC) - 0.29 gm/bhp-hr and 0.03 tons in any 12 consecutive month period.

These limitations apply at all times except during periods of start-up and shut-down, provided, however, that the duration of start-up and shut-down do not exceed one hour per occurrence.

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

Source ID P513 shall only be fired on diesel fuel for which the sulfur content shall not exceed 0.0015% by weight. Additionally, the diesel fuel shall not contain any reclaimed/reprocessed oil, waste oil or any other added materials.

Operation Hours Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Operation of Source ID P513 shall not equal or exceed 500 hours 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).

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

The permittee shall keep accurate and comprehensive records of the hours of operation and emissions calculations for Source ID P513, on a monthly basis.

These records shall be kept for a minimum of five 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.**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

[Additional authority for this condition is also derived from 40 CFR §60.4204(b)]

Source ID P513 shall be certified to the emission standards for new nonroad CI engines in 40 CFR Part 89, as applicable, for all pollutants, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g).

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

The reciprocating internal combustion engine included in Source ID P513 is subject to the requirements of 40 CFR Part 60 Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of 40 CFR §§60.4200 - 60.4219 for Source ID P513.

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

The reciprocating internal combustion engine included in Source ID P513 is subject to 40 CFR Part 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Pursuant to 40 CFR §63.6590(c)(1), the permittee shall meet the requirements of Subpart ZZZZ through compliance with the requirements of 40 CFR Part 60 Subpart III. No further requirements apply for Source ID P513 under Subpart ZZZZ.

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

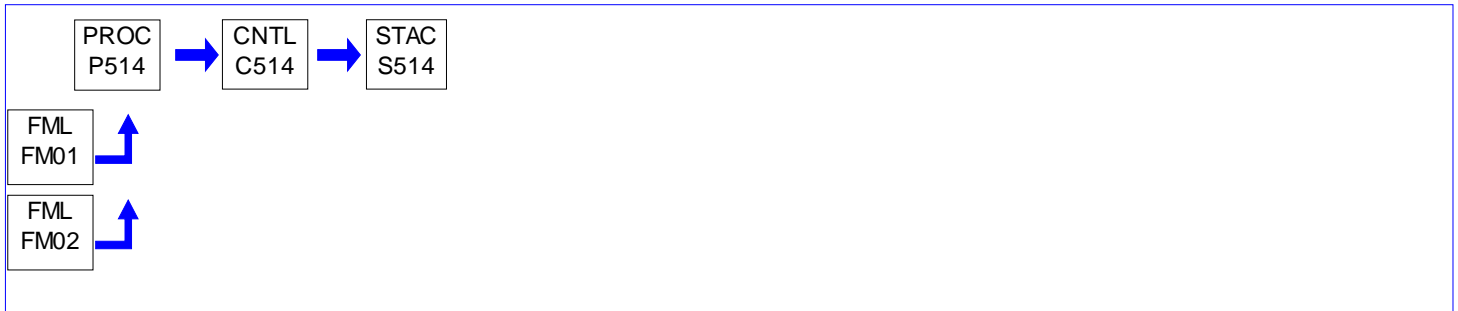
Source ID P513 is a 125 kW generator powered by a 197 bhp John Deere model 4045HF285 diesel-fired engine located in Building 20.

**SECTION D. Source Level Requirements**

Source ID: P514

Source Name: IT GENERATOR #82

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 a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

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

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?**

The permittee shall operate Source ID P514 in compliance with the following emission standards:

- (i) Nitrogen Oxides - 1.0 grams per horsepower-hour
- (ii) Carbon Monoxide - 2.0 grams per horsepower-hour
- (iii) Volatile Organic Compounds - 0.7 grams per horsepower-hour

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

Source ID P514 shall only be fired on propane or pipeline-quality natural gas.

Control Device Efficiency Restriction(s).**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

Pursuant to 40 CFR §60.4243(g), an air-to-fuel ratio controller shall be used with the operation of the three-way catalyst (ID C514). The air-to-fuel controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

II. TESTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is also derived from 40 CFR §60.4245(a)]

The permittee shall create and maintain the following records of pertaining to Source ID P514:

- (1) All notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification.
- (2) Records of maintenance conducted on the engine.
- (3) Documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

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

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

The permittee shall keep accurate and comprehensive records of the hours of operation for Source ID P514, on a monthly basis.

These records shall be kept for a minimum of five 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.**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

Source ID P514 shall be certified according to procedures specified in 40 CFR Part 60 Subpart JJJJ, for the same model year. Source ID P514 and Control ID C514 shall be operated and maintained according to the manufacturer's emission-related written instructions.

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

Source ID P514 is a 125 kW emergency generator powered by a 207 bhp MTU model 363CSL1607 natural gas-fired engine. Source ID P514 meets the emissions requirements for non-emergency generators under 40 CFR Part 60 Subpart JJJJ and does not need to comply with the restrictions for emergency generators included in that subpart.

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

The reciprocating internal combustion engine included in Source ID P514 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of 40 CFR §§60.4230 - 60.4248 for Source ID P514.

**SECTION D. Source Level Requirements****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The reciprocating internal combustion engine included in Source ID P514 is subject to 40 CFR Part 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

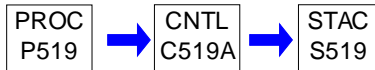
Pursuant to 40 CFR §63.6590(c)(1), the permittee shall meet the requirements of Subpart ZZZZ through compliance with the requirements of 40 CFR Part 60 Subpart JJJJ. No further requirements apply for Source ID P514 under Subpart ZZZZ.

**SECTION D. Source Level Requirements**

Source ID: P519

Source Name: GTP PARTS AREA 1

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.31]

Limitations

No person may permit the emission into the outdoor atmosphere of particulate matter from a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P519 consists of the following PM parts area equipment:

**SECTION D. Source Level Requirements**

063-023 5 cu. Ft. blender
063-024 Weigh & transfer station
Wax tote

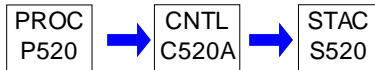
The air contaminant emissions from Source ID P519 shall be controlled by an Empire EM2-2 Cartridge Collector and Final filter operating in series (collectively identified as Control Device ID C519A).

**SECTION D. Source Level Requirements**

Source ID: P520

Source Name: GTP PARTS AREA 2

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.31]

Limitations

No person may permit the emission into the outdoor atmosphere of particulate matter from a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each fabric collector, dust collector, cartridge collector, and final filter shall be equipped with instrumentation which continuously monitors the pressure drop across the collector and filter, and shall monitor the pressure drop across the collector and filter.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across each collector and filter at least once per operating shift.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand sufficient quantity of spare fabric collector bags and filters for all collectors and filters at the facility in order to be able to immediately replace any bag or filter requiring replacement.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Any air compressor used to provide compressed air to any of the collectors or filters shall be equipped with an air dryer and an oil trap.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P520 consists of the following PM parts area equipment:

**SECTION D. Source Level Requirements**

063-005 Hydraulic compacting press (Bussman model HPM60)
063-006 sand shakers (Porter Company - 8 inch)
063-008 2 qt. blender

The air contaminant emissions from Source ID P520 shall be controlled by a Donaldson Torit DFO 2-2 dust collector (Control Device ID C520A).



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id

Source Descriptor

Site Emission Restriction Summary

Emission Limit	Pollutant
0.040 gr/DRY FT3	PM10
100.000 Tons/Yr	NOX
100.000 Tons/Yr	CO
50.000 Tons/Yr	VOC
500.000 PPMV	SOX

**SECTION H. Miscellaneous.**

(A) The following air contaminant sources are considered to be insignificant with regard to air contaminant emissions and have been determined by the Department to be exempt from permit requirements. However, this determination does not exempt the sources from compliance with all applicable State and Federal regulations and all applicable air quality regulations specified in 25 Pa. Code Chapters 121-145:

- (1) CM8 Furnace approved via eRFD #8298 on 3/31/2020
- (2) Harper 4 Dewax Furnace approved via eRFD #9998 on 12/6/2022
- (3) CM5 and CM6 Furnaces approved via eRFD #7001 on 5/2/2018
- (4) HATA Press approved via RFD on 4/8/2009
- (5) Waste Water Treatment equipment approved via RFD on 2/26/1990



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