



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

STATE ONLY OPERATING PERMIT

Issue Date: April 3, 2020

Effective Date: April 3, 2020

Expiration Date: April 2, 2025

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 23-00056

Federal Tax Id - Plant Code: 13-4918545-2

Owner Information

Name: HONEYWELL INTL INC  
Mailing Address: 6100 PHILADELPHIA PIKE  
CLAYMONT, DE 19703-2716

Plant Information

Plant: HONEYWELL INTL / DELAWARE PLT  
Location: 23 Delaware County 23825 Marcus Hook Borough  
SIC Code: 2819 Manufacturing - Industrial Inorganic Chemicals, Nec

Responsible Official

Name: BRUCE ABBOTT  
Title: PLANT MGR  
Phone: (302) 791 - 6724

Permit Contact Person

Name: RUSSELL DAVIS  
Title: HSE MANAGER  
Phone: (302) 791 - 6748

[Signature] \_\_\_\_\_  
JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



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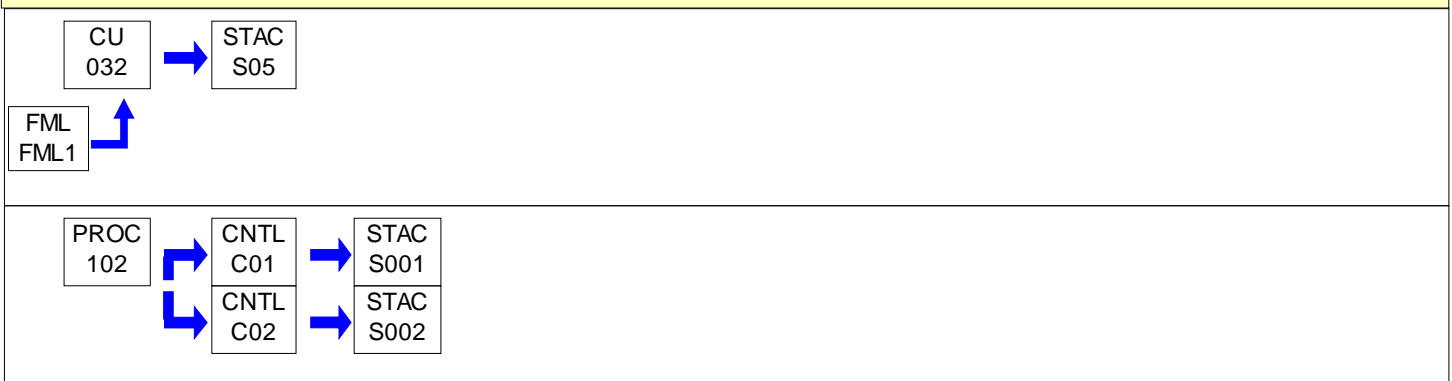
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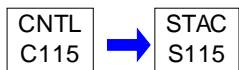
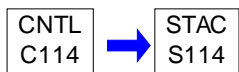
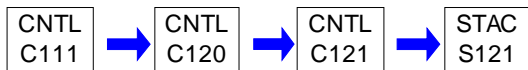
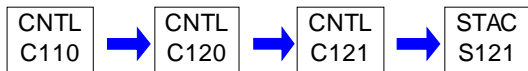
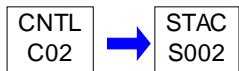
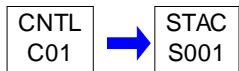
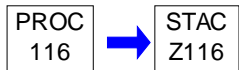
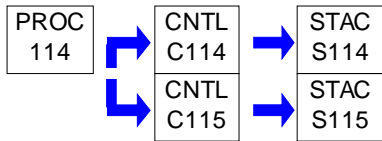
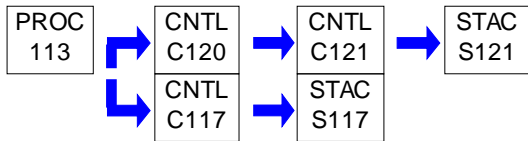
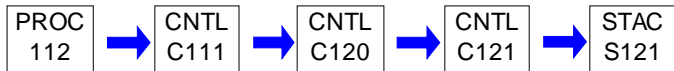
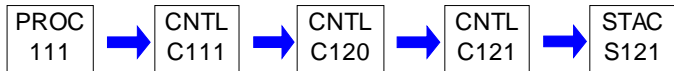
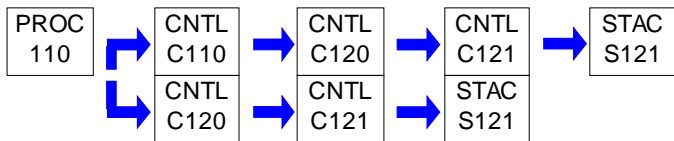
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
032	BOILER NO. 3 (BL-600)	27.150 MMBTU/HR	
		N/A	Natural Gas
102	FLUROSULFONIC ACID MFG	N/A	HYDROGEN FLOURIDE
110	PROCESS TANKS	N/A	BORIC ACID & SULFURIC
111	TREAT TANKS	N/A	SULFURIC ACID
112	PLANT SOURCE BLOWDOWN	N/A	SULFURIC ACID & BORO
113	RAW MATERIAL STORAGE TANKS/RAIL CARS	N/A	SULFURIC ACID & FLUOF
114	BORIC ACID STORAGE & CONVEYING	N/A	BORIC ACID
116	CYLINDER PAINTING	N/A	PAINT
117	MISCELLANEOUS PLANT SOURCES	N/A	SULFURIC ACID & BF3
C01	SULFUR TRIOXIDE SCRUBBER	N/A	SULFUR TRIOXIDE
C02	HYDROGEN FLUORIDE SCRUBBER	N/A	HYDROFLOURIDE
C110	PROCESS TANK ABSORBER (T-301)	N/A	SULFURIC ACID & BF3
C111	TREAT TANK & BLOWDOWN ABSORBER (T-302)	N/A	SULFURIC ACID
C114	BORIC ACID TRANSPORT BAG FILTER	N/A	BORIC ACID
C115	BORIC ACID SILO BAG FILTER	N/A	BORIC ACID
C117	FUME SCRUBBER SYSTEM (U-322)	N/A	SULFURIC ACID & BF3
C120	TWO STAGE SPRAY TOWER (T-303)	N/A	SULFURIC ACID & BF3
C121	DEMISTER (T-304)	N/A	SULFURIC ACID & BF3
FML1	NATURAL GAS		
S001	FLUOSULFONIC ACID SULFUR TRIOXIDE PROC STACK		
S002	FLUOSULFONIC ACID HYDROGEN FLOURIDE PROC STACK		
S05	ENGLISH BOILER & TUBE STACK FOR SOURCE 032		
S114	BORON ACID TRANSPORT FILTER STACKS		
S115	BORIC SILO VENT		
S117	FUME SCRUBBER SYSTEM STACK		
S121	DEMISTER STACK		
Z116	PAINTING FUGITIVES		

**PERMIT MAPS**

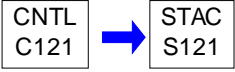
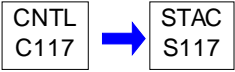


PERMIT MAPS





**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)&(c)]****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 and an additional annual administrative fee as specified in 25 Pa. Code § 127.703(b) and (c). The fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund" and shall be for the amount specified in the following schedule specified in 25 Pa. Code § 127.703(b) and (c).
- (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
  - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.
- (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 fees according to the following schedule specified in 25 Pa. Code § 127.703(b):
- (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
  - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.

This fee schedule shall apply to the processing of an application for an operating permit as well as the extension,

**SECTION B. General State Only Requirements**

modification, revision, renewal, and re-issuance of each operating permit or part thereof.

(b) The permittee shall pay an annual operating permit administrative fee according to the fee schedule established in 25 Pa. Code § 127.703(c).

(1) Two hundred fifty dollars for applications filed during the 1995-1999 calendar years.

(2) Three hundred dollars for applications filed during the 2000-2004 calendar years.

(3) Three hundred seventy-five dollars for applications filed during the years beginning in 2005.

(c) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund".

**#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



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a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

- (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]****Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and

**SECTION B. General State Only Requirements**

significant operating permit modifications, under this permit, as outlined below:

(b) Administrative Amendments. The permittee shall make 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 make minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Permit modifications which do not qualify as minor permit modifications under 25 Pa. Code § 127.541 will be treated as a significant operating permit revision subject to the public notification procedures in §§ 127.424 and 127.425.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

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

(e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

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

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

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person shall permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

**# 002 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

(a) The permittee shall not permit the emission into the outdoor atmosphere of fugitive air contaminant 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) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.

(8) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in § 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations).

(9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator 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; and

(ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

**# 003 [25 Pa. Code §123.2]****Fugitive particulate matter**

The permittee shall not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1-9) (relating to prohibition of certain fugitive emissions), if such emissions are visible at the point the emissions pass outside the person's property.

**# 004 [25 Pa. Code §123.31]****Limitations**

The permittee shall not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

**# 005 [25 Pa. Code §123.41]****Limitations**

The permittee shall not 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:

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

**SECTION C. Site Level Requirements**

(b). Equal to or greater than 60% at any time.

**# 006 [25 Pa. Code §123.42]****Exceptions**

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in either of the following instances:

- (a) When the presence of uncombined water is the only reason for failure to meet the limitations.
- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions).

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

The permittee shall not permit the open burning of material in the Southeast Air Basin exempt where the open burning operations result from:

- (1) a fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;
- (2) any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;
- (3) a fire set for the prevention and control of disease or pests, when approved by the Department;
- (4) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;
- (5) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;
- (6) a fire set solely for recreational or ceremonial purposes; or
- (7) a fire set solely for cooking food.

**Throughput Restriction(s).****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall limit the production of Boron Trifluoride to 13.2 million pounds per year calculated on a 12-month rolling sum.

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

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this Permit/Plan Approval, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139 and the most current version of the DEP Source Testing Manual, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.



**SECTION C. Site Level Requirements****III. MONITORING REQUIREMENTS.****# 010 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions shall be measured using either of the following:

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

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

(a) The permittee shall monitor the facility, once per operating day, for the following:

- (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
- (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
- (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) be investigated;
- (2) be reported to the facility management, or individual(s) designated by the permittee;
- (3) have appropriate corrective action taken (for emissions that originate on-site); and
- (4) be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly for the next six month period.

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or Department findings.

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

The permittee shall monitor the throughput of boric acid/sulfuric acid mixture and fluorosulfonic acid consumed by this facility monthly and on a 12-month rolling sum to demonstrate compliance with the throughput limits set in this permit.

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

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) date, time, and location of the incident(s);
- (b) the cause of the event; and
- (c) the corrective action taken, if necessary, to abate the situation and prevent future occurrences.

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

The permittee shall record the throughput of boric acid/sulfuric acid mixture and fluorosulfonic acid consumed by this facility monthly and on a 12-month rolling sum to demonstrate compliance with the throughput limits set in this permit.

**SECTION C. Site Level Requirements****V. REPORTING REQUIREMENTS.****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR Part 68.]

- (a). If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release [25 Pa. Code § 127.441(d) and 40 CFR Part 68] program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b). The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the threshold quantity at a facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:
- (1). The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
    - (i). Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
    - (ii). The date on which a regulated substance is first present above a threshold quantity in a process.
  - (2). The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
  - (3). The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c). As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d). If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
- (1). Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
  - (2). Certify that this facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.
- (e). If this facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f). When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:
- (1). The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.
  - (2). The permittee fails to submit a compliance schedule or include a statement in an annual Compliance Certification submittal for the previous year indicating compliance with the requirements of the terms and conditions of this permit, and the requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68. The certification shall include:
    - (i). The identification of each term or condition of the permit that is the basis of the certification.
    - (ii). The compliance status.
    - (iii). The methods used for determining the compliance status of the source, currently and over the reporting period.
    - (iv). Whether compliance was continuous or intermittent.
- (g). The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance of this permit.

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

- (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

**SECTION C. Site Level Requirements**

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

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

(c) The report shall describe the following:

- (1) Name, permit or authorization number, and location of the facility,
- (2) Nature and cause of the malfunction, emergency or incident,
- (3) Date and time when the malfunction, emergency or incident was first observed,
- (4) Expected duration of excess emissions,
- (5) Estimated rate of emissions,
- (6) Corrective actions or preventative measures taken.

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

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

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

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

**VI. WORK PRACTICE REQUIREMENTS.****# 017 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following

- (a) use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land;
- (b) application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts;
- (c) paving and maintenance of roadways; and
- (d) prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

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

The permittee shall reduce emissions of Class I and Class II refrigerants during the service, maintenance, repair, and disposal of equipment in accordance with the requirements of 40 CFR 82, Subpart F, Recycling and Emissions Reduction.

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

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in Section A, of this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

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

The permittee shall not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.

**VII. ADDITIONAL REQUIREMENTS.**

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

**VIII. COMPLIANCE CERTIFICATION.**

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

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

**SECTION D. Source Level Requirements**

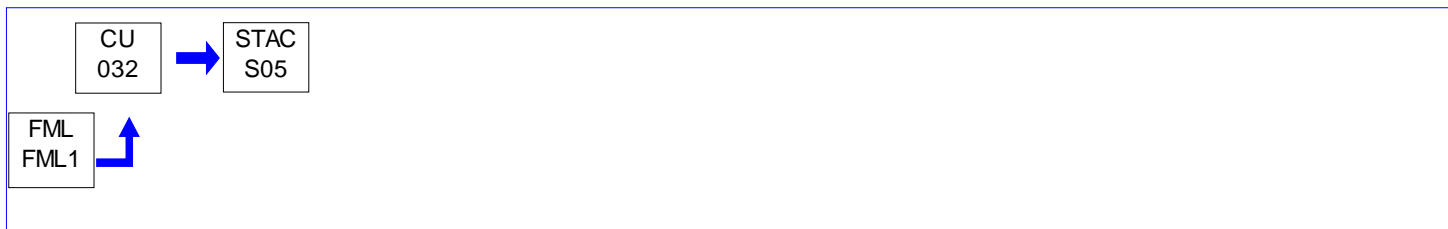
Source ID: 032

Source Name: BOILER NO. 3 (BL-600)

Source Capacity/Throughput: 27.150 MMBTU/HR

N/A

Natural Gas

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall limit the emissions from this boiler to the following:

- (a). 30 ppmdv NO<sub>x</sub> at 3% O<sub>2</sub>.
- (b). 300 ppmdv CO at 3% O<sub>2</sub>.

**Fuel Restriction(s).**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel for this boiler.

**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.**

The permittee shall monitor the amount of fuel consumed on a monthly basis.

[Compliance with this condition assures compliance with 40 C.F.R. Part 60 § 60.48c(g)(2)]

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall keep records of the monthly fuel consumption.

[Compliance with this condition assures compliance with 40 C.F.R. Part 60 § 60.48c(g)(2)]

**V. REPORTING REQUIREMENTS.**

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

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

The permittee shall operate and maintain this boiler according to the manufacturer's specifications.

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

This 27.15 MMBTU/HR boiler, manufactured by English Boiler and Tube, Model number 22.5-Sf-250 was incorporated into the renewal from GP1-23-302-146.

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

This boiler, Source ID 032, is a natural gas fired boiler and does not burn No. 2 fuel oil or is equipped to burn No. 2 fuel oil at this time. Therefore, 40 C.F.R. 63 Subpart JJJJJJ, is not applicable to this boiler.

**SECTION D. Source Level Requirements**

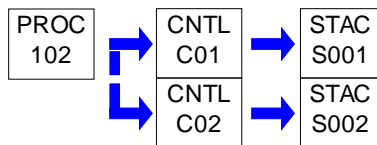
Source ID: 102

Source Name: FLUOROSULFONIC ACID MFG

Source Capacity/Throughput:

N/A

HYDROGEN FLUORIDE

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall limit the emissions of hydrogen fluoride from the Fluorosulfonic acid manufacturing process to less than 0.89 tons per year, calculated on a 12-month rolling sum.

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall limit the emissions of sulfur trioxide from the Fluorosulfonic acid manufacturing process to less than 3.5 tons per year, calculated on a 12-month rolling sum.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall limit the emissions of particulate matter from the fluorosulfonic acid manufacturing process to less than 3.6 tons per year, calculated on a 12-month rolling sum.

**Throughput Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The fluorosulfonic acid manufacturing process shall not exceed a production rate of 45.5 million pounds per year calculated on a 12-month rolling sum.

**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.**

The permittee shall monitor the amount of the fluorosulfonic acid produced on a daily basis.

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall calculate the emissions for the following monthly and on a 12-month rolling sum:

- Hydrogen fluoride
- Sulfur Oxide (SO<sub>x</sub>), as Sulfur trioxide (SO<sub>3</sub>)
- Particulate matter

**IV. RECORDKEEPING REQUIREMENTS.**

# 007 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall keep a copy of the manufacturer's specifications for the fluorosulfonic acid production process on hand

**SECTION D. Source Level Requirements**

at all times.

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

The permittee shall keep records of the emission calculations for the following monthly and on a 12-month rolling sum:

- a. Hydrogen fluoride
- b. Sulfur trioxide
- c. Particulate matter

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

The permittee shall keep records of the amount of Fluorosulfonic acid produced monthly and on a 12-month rolling sum.

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

The permittee shall keep records of the date of inspection and the corrective action taken if required for the high efficiency drift eliminator on the cooling tower.

**V. REPORTING REQUIREMENTS.**

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

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

The permittee shall control the emissions of Hydrogen Fluoride from unloading activities and from various fugitive sources by operating and maintaining a Hydrogen Fluoride packed bed scrubber at all times when the plant is operating.

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

The permittee shall control emissions of Sulfur Trioxide from unloading activities and various fugitive sources by operating and maintaining a Sulfur Trioxide packed bed scrubber at all times when the plant is operating.

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

The permittee shall operate and maintain:

- a. The Fluorosulfonic acid production process in accordance with the manufacturer's specifications.
- b. A high efficiency drift eliminator on the cooling tower to control the emissions of particulate matter.
- c. A water deluge system to control the emissions of hydrogen fluoride in the event of a release from the hydrogen fluoride storage tanks.

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

The permittee shall use acid sensitive paint on surfaces that could come into contact with hydrogen fluoride.

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

Upon discovery of a leak from any component that is in contact with hydrogen fluoride the company shall, as expeditiously as possible, repair the leak.

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

The permittee shall inspect the high efficiency drift eliminator on the cooling tower at least once every three (3) years.



**SECTION D. Source Level Requirements****# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

In the event of a malfunction of the monitoring equipment, the permittee shall as expeditiously as possible repair the monitoring equipment.

**VII. ADDITIONAL REQUIREMENTS.****# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The fluorosulfonic acid manufacturing process, in part, consists of:

1. Material loading and unloading for the following:
  - HF railcar
  - HF tank truck/ISO
  - SO<sub>3</sub> rail car
  - SO<sub>3</sub> tank truck/ISO
  - FSA railcar
  - FSA tank truck/ISO
  - Liquid Nitrogen (unloading)
2. A cooling tower.
3. A 100 hp emergency diesel pump.
4. A sulfur trioxide scrubber.
5. A hydrogen fluoride scrubber.
6. Two 30,000-gallon hydrogen fluoride tanks.
7. One 30,000-gallon sulfur trioxide storage tank.
8. One 15,000-gallon sulfur trioxide storage tank.
9. One 5,000-gallon day tank.

**SECTION D. Source Level Requirements**

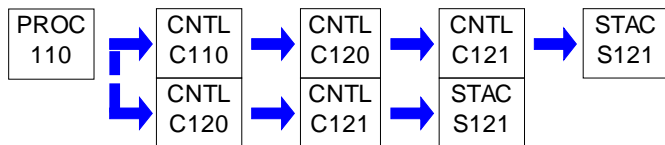
Source ID: 110

Source Name: PROCESS TANKS

Source Capacity/Throughput:

N/A

BORIC ACID &amp; SULFURIC ACID

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

# 001 [25 Pa. Code §123.21]

**General**

The permittee shall not permit the emission into the outdoor atmosphere of sulfur oxides from this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas, after controls, exceeds 500 ppmvd.

**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.**

The permittee shall monitor the following per batch reaction, of boron trifluoride produced from this source:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a). The permittee shall record the following per batch reaction, of boron trifluoride produced from this source:

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

(b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.

(c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records 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.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good engineering practices.

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

The permittee shall not operate the equipment listed under this source unless Spray Tower T-303 and Demister T-304 (Source ID Nos. C120 and C121) are in operation.

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

Source ID No. 110 includes the following tanks:

- (a). The Head Tank (U-304).
- (b). The Mix Tank (U-305).
- (c). The Feed Tank (U-306).

**SECTION D. Source Level Requirements**

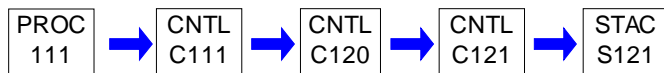
Source ID: 111

Source Name: TREAT TANKS

Source Capacity/Throughput:

N/A

SULFURIC ACID

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

# 001 [25 Pa. Code §123.21]

**General**

The permittee shall not permit the emission into the outdoor atmosphere of sulfur oxides from this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas, after controls, exceeds 500 ppmvd.

**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.**

The permittee shall monitor the following per batch reaction, of boron trifluoride produced from this source:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a). The permittee shall record the following per batch reaction, of boron trifluoride produced from this source:

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

(b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.

(c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good



**SECTION D. Source Level Requirements**

engineering practices.

**# 005 [25 Pa. Code §127.441]**  
**Operating permit terms and conditions.**  
The permittee shall not operate the equipment listed under this source unless Absorber T-302, Spray Tower T-303, and Demister T-304 (Source ID Nos. C111, C120, C121) are in operation.

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**  
**Operating permit terms and conditions.**  
Source ID No. 111 includes the following tanks:  
(a). Treat Tank U-308.  
(b). Treat Tank U-309.

**SECTION D. Source Level Requirements**

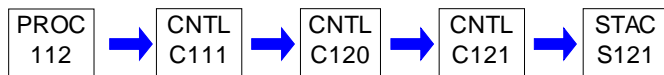
Source ID: 112

Source Name: PLANT SOURCE BLOWDOWN

Source Capacity/Throughput:

N/A

SULFURIC ACID &amp; BORON TRIFI

**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 permittee shall monitor the following per batch reaction, of boron trifluoride produced from this source:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

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

(a). The permittee shall record the following per batch reaction, of boron trifluoride produced from this source:

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

(b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.

(c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records 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.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good engineering practices.

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

**SECTION D. Source Level Requirements**

The permittee shall not operate the equipment listed under this source unless Absorber T-302, Spray Tower T-303, and Demister T-304 (Source ID Nos. C111, C120, C121) are in operation.

**VII. ADDITIONAL REQUIREMENTS.**

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID No. 112 includes the following activities:

- (a). Reboiler Blowdown.
- (b). Process Equipment Blowdown.

**SECTION D. Source Level Requirements**

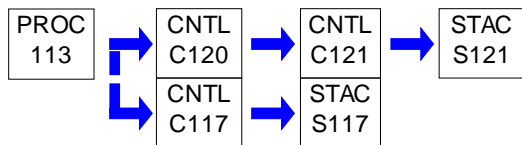
Source ID: 113

Source Name: RAW MATERIAL STORAGE TANKS/RAIL CARS

Source Capacity/Throughput:

N/A

SULFURIC ACID &amp; FLUOROSULI

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

# 001 [25 Pa. Code §123.21]

**General**

The permittee shall not permit the emission into the outdoor atmosphere of sulfur oxides from this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas, after controls, exceeds 500 ppmvd.

**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.**

The permittee shall monitor the following per batch reaction, of boron trifluoride produced from this source:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a). The permittee shall record the following batch reaction, of boron trifluoride produced from this source:

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

(b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.

(c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records 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.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good engineering practices.

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

The permittee shall not operate the equipment listed under this source unless Spray Tower T-303 and Demister T-304 (Source ID Nos. C120 and C121) or the fume scrubber system (Source ID No. C117) are in operation.

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

Source ID No. 113 includes the following sources of emissions:

- (a). Vents from fluorosulfonic acid loading and unloading (transport containers).
- (b). Vents from fluorosulfonic acid tanks (U-301 and U-302).
- (c). Vents from sulfuric acid tanks (U-312 and U-313).

Note: The sulfuric acid tanks (U-312 and U-313) are located in Delaware, and the vents for the tanks are located in Pennsylvania.

**SECTION D. Source Level Requirements**

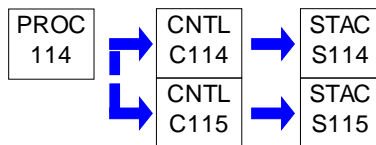
Source ID: 114

Source Name: BORIC ACID STORAGE &amp; CONVEYING

Source Capacity/Throughput:

N/A

BORIC ACID

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

# 001 [25 Pa. Code §123.13]

**Processes**

The permittee shall not permit the emission into the outdoor atmosphere of particulate matter from this source at any time, in excess of 0.04 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

**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.**

The permittee shall monitor the consumption of boric acid on a monthly basis.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall monitor the following per batch reaction, of boron trifluoride produced from this source:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a). The permittee shall keep records of the consumption of boric acid on a monthly basis.

(b). The records collected in paragraph (a) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a). The permittee shall record the following per batch reaction, of boron trifluoride produced from this source:

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

(b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.

**SECTION D. Source Level Requirements**

(c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good engineering practices.

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

The permittee shall not operate the equipment listed under this source unless the dust collectors listed under Source ID No. C114 and C115 are in operation.

**VII. ADDITIONAL REQUIREMENTS.**

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

Source ID No. 114 includes the following equipment:

- (a). Storage Silo for boric acid (U-329).
- (b). Hopper that feeds boric acid into process (U-303).
- (c). Piping for pneumatically conveying boric acid between the tank truck or rail car to the silo.
- (d). Piping for pneumatically conveying boric acid between the silo and hopper.
- (e). Blower used to pneumatically convey boric acid.
- (f). Boric acid loading and unloading from transport containers..

**SECTION D. Source Level Requirements**

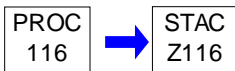
Source ID: 116

Source Name: CYLINDER PAINTING

Source Capacity/Throughput:

N/A

PAINT

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §129.52]****Surface coating processes**

The permittee shall limit the emissions of volatile organic compounds (VOC's) from this source to 3 pounds per hour, 15 pounds per day, or 2.7 tons per year calculated on a 12-month rolling sum.

**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.**

The permittee shall monitor the number of cylinders that are being coated per day and the operating hours per day.

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

The permittee shall keep records on file detailing the data and calculations used in determining emission factors for the coating of cylinders.

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

(a). The permittee shall record the total number of cylinders coated per day and the total operating hours per day.

(b). Using a Department approved method, the permittee shall calculate and record the total amount of volatile organic compounds that are emitted from the coating of cylinders on an hourly, daily, monthly and on a 12-month rolling sum.

(c). The records collected in paragraphs (a) and (b) above are to be kept on file for a period of five (5) years, and these records shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

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

The following work practice standards shall be followed:

- (a) all VOC-containing materials shall be stored in closed, nonabsorbent, non-leaking containers when not being mixed or transferred to another container;
- (b) cloth and paper, or other absorbent applicators, moistened with coatings, solvents or cleaning solvents, shall be stored in closed, nonabsorbent, non-leaking containers; and
- (c) all spills shall be cleaned up as soon as possible.

**VII. ADDITIONAL REQUIREMENTS.**

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

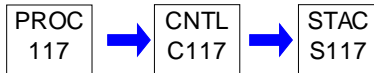
**SECTION D. Source Level Requirements**

Source ID: 117

Source Name: MISCELLANEOUS PLANT SOURCES

Source Capacity/Throughput:

N/A

SULFURIC ACID & BF<sub>3</sub>**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.**

In the event that a pressure relief valve associated with this source is triggered, the permittee shall monitor the cause that triggered the valve and the length of time the relief valve is triggered.

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

The permittee shall keep records for each event that a pressure relief valve associated with this source is triggered. The records shall include at least the following information:

- (a). The date in which the relief valve was triggered.
- (b). The estimated time in which the relief valve was triggered.
- (c). A calculation estimating the total amount of emissions resulting from the event.
- (d). The cause and corrective action taken.

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

The permittee shall keep records of all inspections and/or maintenance that is performed on the relief valves that are associated with this source.

**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 operate and maintain this source in accordance with the manufacturer's specifications and good engineering practices.

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

The permittee shall not operate this source unless Source ID No. C117 (Fume Scrubber System (U-322)) is in operation.

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

(a). The permittee shall have a Department approved preventive maintenance plan kept on site for the operation of the relief valves associated with this source. A copy of the preventive maintenance plan shall be made available to the Department upon request.

(b). The permittee shall inspect and/or maintain the relief valves associated with this source in accordance with the preventive maintenance plan described in paragraph (a) above.

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

Source ID No. 117 includes the following sources of emissions:

- (a). All pressure relief device outlets from the high pressure surge drum, boron trifluoride generation, high purity, and packaging.
- (b). Depressurization of the plant and/or isolated equipment.
- (c). Depressurization of the gas cylinder operations.
- (d). Depressurization of the tube trailer operations.
- (e). The vacuum pump.
- (f). Cylinder evacuation.
- (g). Tube trailer evacuation.
- (h). Equipment Blowdown.

**SECTION D. Source Level Requirements**

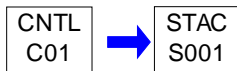
Source ID: C01

Source Name: SULFUR TRIOXIDE SCRUBBER

Source Capacity/Throughput:

N/A

SULFUR TRIOXIDE

**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 permittee shall at least four times per day, monitor the following:

- The concentration of sulfuric acid in the scrubbing liquid of this scrubber.
- The pressure drop across this scrubber.

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

The permittee shall monitor the flow rate of this scrubber every 15 minutes using the rotameter or a Department approved device.

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

The permittee shall at least four times per day, record the following:

- The concentration of sulfuric acid in the scrubbing liquid of this scrubber.
- The pressure drop across this scrubber.

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

The permittee shall keep records of the date of inspection and the corrective actions taken for:

- The high efficiency mist eliminator on the scrubber.

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

The permittee shall keep a copy of the manufacturer's specifications for this scrubber on hand at all times.

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

The permittee shall record the scrubbing liquid flow rate daily.

**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.**

The permittee shall operate and maintain a high efficiency mist eliminator on this scrubber in order to control the emissions of sulfuric acid mist.

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

The permittee shall, at least once every three years, inspect:  
a. The high efficiency mist eliminator on the scrubber.

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

The permittee shall limit the maximum concentration of sulfuric acid in the scrubbing liquid to 98 percent weight ( 98 % w.g.), or less, averaged over a 24-hour period.

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

The permittee shall maintain a minimum scrubbing liquid flow rate of 30 gallons per minute, averaged over a 30-minute period.

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

The permittee shall maintain the pressure drop across this scrubber to less than 15 inches of water column.

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

The permittee shall operate and maintain this scrubber in accordance with the manufacturer's specifications.

**VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION D. Source Level Requirements**

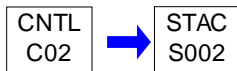
Source ID: C02

Source Name: HYDROGEN FLUORIDE SCRUBBER

Source Capacity/Throughput:

N/A

HYDROFLOURIDE

**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 permittee shall at least four times per day, monitor the following in this scrubber:

- a. The amount of hydrogen fluoride in the scrubbing liquid.
- b. The liquid temperature of the recirculation liquid.

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

The permittee shall monitor the flow rate of this scrubber every 15 minutes using the rotameter or a Department approved device.

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

The permittee shall keep a copy of the manufacturer's specifications on hand at all times.

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

The permittee shall keep records of the following:

- a. The date of the inspection of the packing material and the corrective actions taken, once every 3 years.
- b. The amount of Hydrogen Fluoride in the scrubbing liquid, at least four times per day.
- c. The liquid temperature of the recirculation liquid, at least four times per day.
- d. The flow rate, daily.

**V. REPORTING REQUIREMENTS.**

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

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

The permittee shall maintain a minimum scrubbing liquid flow rate of 30 gallons per minute, averaged over a 30-minute period.

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

The permittee shall limit the hydrogen fluoride in the scrubbing liquid to six percent weight ( 6% w.t.) or less averaged over a 24-hour period.

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

The permittee shall operate and maintain a rotameter or a Department approved device to measure the water flow rate of this scrubber.

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

The permittee shall maintain the recirculation liquid in this scrubber to less than 145 degrees F.

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

The permittee shall operate and maintain this scrubber in accordance with the manufacturer's specifications.

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

At least once every three years, the permittee shall inspect the packing material in this scrubber.

**VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION D. Source Level Requirements**

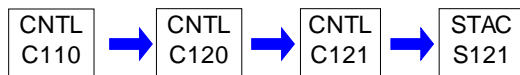
Source ID: C110

Source Name: PROCESS TANK ABSORBER (T-301)

Source Capacity/Throughput:

N/A

SULFURIC ACID &amp; BF3

**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 this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas, after controls, exceeds 500 ppmvd.

**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.**

The permittee shall monitor the following for the Absorber (T-301) on a daily basis when this source is in operation:

- (a). Flow rate of fluid through the absorber.
- (b). Pressure drop across the absorber.

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

The permittee shall monitor the following for this source per batch reaction of boron trifluoride produced:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

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

The permittee shall record the following for the Absorber (T-301) on a daily basis when this source is in operation:

- (a). Flow rate of fluid through the absorber.
- (b). Pressure drop across the absorber.

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

(a). Using a Department approved method, the permittee shall keep records of calculations and/or data that shows either the percentage of boron trifluoride (BF<sub>3</sub>) recovery in Source ID No. C110 (Absorber T-301) with different flow rates of fluid through the absorber or the flow rate of fluid that supports the optimal recovery of BF<sub>3</sub> in Source ID No. C110.

(b). The permittee shall keep records of the pressure drop range across Source ID No. C110 that supports optimal recovery

**SECTION D. Source Level Requirements**

of BF<sub>3</sub>.

(c). The calculations and data records from paragraphs (a) and (b) above shall be kept on site and made available to the Department upon request.

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

(a). The permittee shall record the following for this source per batch reaction of boron trifluoride produced:

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

(b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.

(c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records 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 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain this source in accordance with the manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION D. Source Level Requirements**

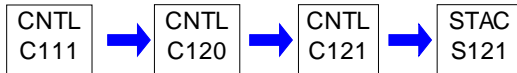
Source ID: C111

Source Name: TREAT TANK &amp; BLOWDOWN ABSORBER (T-302)

Source Capacity/Throughput:

N/A

SULFURIC ACID

**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 this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas, after controls, exceeds 500 ppmvd.

**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.**

The permittee shall monitor the following for the Absorber (T-302) on a daily basis when this source is in operation:

- (a). Flow rate of fluid through the absorber.
- (b). Pressure drop across the absorber.

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

The permittee shall monitor the following for this source per batch reaction of boron trifluoride produced:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

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

The permittee shall record the following for the Absorber (T-302) on a daily basis when this source is in operation:

- (a). Flow rate of fluid through the absorber.
- (b). Pressure drop across the absorber.

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

(a). Using a Department approved method, the permittee shall keep records of calculations and/or data that shows either the percentage of boron trifluoride (BF<sub>3</sub>) recovery in Source ID No. C111 (Absorber T-302) with different flow rates of fluid through the absorber or the flow rate of fluid that supports the optimal recovery of BF<sub>3</sub> in Source ID No. C111.

(b). The permittee shall keep records of the pressure drop range across Source ID No. C111 that supports optimal recovery

**SECTION D. Source Level Requirements**

of BF3.

(c). The calculations and data records from paragraphs (a) and (b) above shall be kept on site and made available to the Department upon request.

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

(a). The permittee shall record the following for this source per batch reaction of boron trifluoride produced:

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

(b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.

(c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records 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 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate and maintain this source in accordance with the manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION D. Source Level Requirements**

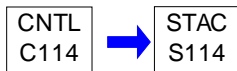
Source ID: C114

Source Name: BORIC ACID TRANSPORT BAG FILTER

Source Capacity/Throughput:

N/A

BORIC ACID

**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 this source at any time, in excess of 0.04 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

**Control Device Efficiencies Restriction(s).****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

a. The permittee shall maintain the pressure drop across the boric acid silo bag filters associated with this source between 0.1 inches water column and 35 inches water column.

b. The permittee shall maintain the pressure drop listed above only while boric acid is actively being conveyed.

**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.**

The permittee shall monitor the pressure drop across the dust collector(s) on a daily basis when this source is in operation.

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

The permittee shall record the following for this source per batch reaction of boron trifluoride produced:

(a). The date and time the batch reaction is started.

(b). The date and time the batch reaction is ended.

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

The permittee shall keep the manufacturer's specifications and recommendations for inspections and maintenance on file for the dust collectors included under this source. The permittee shall make these files available to the Department upon request.

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



**SECTION D. Source Level Requirements**

The permittee shall keep records of the pressure drop across the dust collector(s) on a daily basis when this source is in operation.

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

- (a). The permittee shall keep records of all inspections and/or maintenance that is performed on the dust collector(s).
- (b). The records collected in paragraph (a) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

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

- (a). The permittee shall record the following for this source per batch reaction of boron trifluoride produced:
  - (1). The date and time the batch reaction is started.
  - (2). The date and time the batch reaction is ended.
- (b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.
- (c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records 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.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall inspect and maintain the dust collector(s) included under this source according to the manufacturer's recommendations.

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

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for each dust collector(s) associated with the equipment listed under this source, in order to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the source and dust collector.

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

Source ID No. C114 includes the following equipment:

- (a). Dust Collector for the Hopper that feeds Boric Acid into process.

**SECTION D. Source Level Requirements**

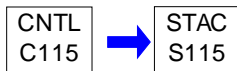
Source ID: C115

Source Name: BORIC ACID SILO BAG FILTER

Source Capacity/Throughput:

N/A

BORIC ACID

**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 this source at any time, in excess of 0.04 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

**Control Device Efficiencies Restriction(s).****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

a. The permittee shall maintain the pressure drop across the boric acid silo bag filters associated with this source between 0.1 inches water column and 35 inches water column.

b. The permittee shall maintain the pressure drop listed above only while boric acid is actively being loaded into the silo.

**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.**

The permittee shall monitor the pressure drop across the dust collector(s) on a daily basis when this source is in operation.

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

The permittee shall record the following for this source per batch reaction of boron trifluoride produced:

(a). The date and time the batch reaction is started.

(b). The date and time the batch reaction is ended.

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

The permittee shall keep the manufacturer's specifications and recommendations for inspections and maintenance on file for the dust collectors included under this source. The permittee shall make these files available to the Department upon request.

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

**SECTION D. Source Level Requirements**

The permittee shall keep records of the pressure drop across the dust collector(s) on a daily basis when this source is in operation.

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

- (a). The permittee shall keep records of all inspections and/or maintenance that is performed on the dust collector(s).
- (b). The records collected in paragraph (a) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

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

- (a). The permittee shall record the following for this source per batch reaction of boron trifluoride produced:
  - (1). The date and time the batch reaction is started.
  - (2). The date and time the batch reaction is ended.
- (b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.
- (c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records 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.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall inspect and maintain the dust collector(s) included under this source according to the manufacturer's recommendations.

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

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for each dust collector(s) associated with the equipment listed under this source, in order to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the source and dust collector.

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

Source ID No. C115 includes the following equipment:

- (a). Dust Collector for the Boric Acid Storage Silo.

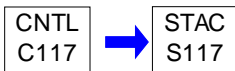
**SECTION D. Source Level Requirements**

Source ID: C117

Source Name: FUME SCRUBBER SYSTEM (U-322)

Source Capacity/Throughput:

N/A

SULFURIC ACID & BF<sub>3</sub>**I. RESTRICTIONS.****Control Device Efficiencies Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep the pH range between 1 and 10 for this scrubber.

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

The permittee shall keep the temperature of the fluid flowing through this scrubber to less than 160 degrees F.

**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.**

The permittee shall monitor the following on a daily basis when this source is in operation:

- (a). The pump is in operation.
- (b). The pH of the fluid flowing through the scrubber associated with this source.
- (c). The temperature of the fluid flowing through the scrubber associated with this source.
- (d). The pump discharge pressure is alarmed at the minimum set point.

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

The permittee shall monitor that this source is in operation at the following time periods per batch reaction of boron trifluoride produced:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

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

The permittee shall keep records of the following on a daily basis when this source is in operation:

- (a). The pump is in operation.

**SECTION D. Source Level Requirements**

- (b). The pH of the fluid flowing through the scrubber associated with this source.
- (c). The temperature of the fluid flowing through the scrubber associated with this source.
- (d). The pump discharge pressure and alarm.

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

- (a). The permittee shall record that this source is in operation at the following time periods per batch reaction of boron trifluoride produced:
  - (1). The date and time the batch reaction is started.
  - (2). The date and time the batch reaction is ended.
- (b). The permittee shall calculate and record the total number of hours that this source is in operation monthly and on a 12-month rolling sum.
- (c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

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

The permittee shall keep records of all inspections and/or maintenance that is performed on the alarms associated with the pump and minimum pressure drop across this scrubber.

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

The permittee shall keep the manufacturers' specifications for the pump alarm and the pressure drop alarm on file. The permittee shall provide files on manufacturers' specifications for these alarms 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.**

The permittee shall operate and maintain this source 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 operate this source for each batch reaction of boron trifluoride that is produced.

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

The permittee shall inspect and/or maintain the alarms associated with the running of the pump and the minimum pressure drop across this scrubber according to the manufacturers' recommended schedule for maintenance for these

**SECTION D. Source Level Requirements**

alarms.

**VII. ADDITIONAL REQUIREMENTS.**

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

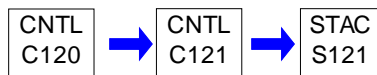
**SECTION D. Source Level Requirements**

Source ID: C120

Source Name: TWO STAGE SPRAY TOWER (T-303)

Source Capacity/Throughput:

N/A

SULFURIC ACID & BF<sub>3</sub>**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 this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas, after controls, exceeds 500 ppmvd.

**Control Device Efficiencies Restriction(s).**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain a pressure drop of less than 20 inches water gage across this spray tower.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain the following operating parameters for scrubber T-303:

- (a). The daily average minimum city water make-up rate shall be equal to or greater than 6 gallons per hour over a 24-hour period.
- (b). The daily average minimum recirculation water flow rate through this scrubber shall be equal to or greater than 90 gallons per hour over a 24-hour 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.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall monitor the following for the Spray Tower (T-303) on a daily basis when this source is in operation:

- (a). The flow rate of city water entering the second stage of Source ID No. 120 averaged over a 24-hour period.
- (b). The flow rate of recirculating water through the first stage of Source ID No. C120 averaged over a 24-hour period.
- (c). The pressure drop across Source ID No. C120.

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall monitor the following for this source per batch reaction of boron trifluoride produced:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

**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 following for this source per batch reaction of boron trifluoride produced:

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

(b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling sum.

(c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

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

The permittee shall keep records of the following for the Spray Tower (T-303) on a daily basis when this source is in operation:

- (a). The flow rate of city water entering the second stage of Source ID No. 120 averaged over a 24-hour period.
- (b). The flow rate of recirculating water through the first stage of Source ID No. C120 averaged over a 24-hour period.
- (c). The pressure drop across Source ID No. C120.

**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 operate and maintain the Spray Tower (T-303) in accordance with the manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

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



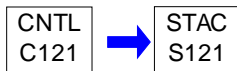
**SECTION D. Source Level Requirements**

Source ID: C121

Source Name: DEMISTER (T-304)

Source Capacity/Throughput:

N/A

SULFURIC ACID & BF<sub>3</sub>**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 this source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 ppmvd.

**Control Device Efficiencies Restriction(s).****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain the following operating parameters for Demister T-304:

- (a). The daily average pressure drop across the demister shall not exceed 30 inches water gage over a 24-hour period.
- (b). The daily average minimum recirculation water flow rate through the demister must be equal to or greater than 90 gallons per hour over a 24-hour 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.**

The permittee shall monitor the following for this source per batch reaction of boron trifluoride produced:

- (a). The date and time the batch reaction is started.
- (b). The date and time the batch reaction is ended.

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

The permittee shall monitor the following parameters on a daily basis when the source is in operation.

- (a). The flow rate of recirculating water through the Demister (T-304) averaged over a 24-hour period.
- (b). The pressure drop across the Demister averaged over a 24-hour period.

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

- (a). The permittee shall record the following for this source per batch reaction of boron trifluoride produced:

**SECTION D. Source Level Requirements**

- (1). The date and time the batch reaction is started.
- (2). The date and time the batch reaction is ended.

- (b). The permittee shall calculate and record the total number of hours operated monthly and on a 12-month rolling basis.
- (c). The records collected for paragraphs (a) and (b) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

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

The permittee shall keep records of the following parameters on a daily basis when the source is in operation.

- (a). The flow rate of recirculating water through the Demister (T-304) averaged over a 24-hour period.
- (b). The pressure drop across the Demister averaged over a 24-hour period.

**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 operate and maintain the Demister (T-304) in accordance with the manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

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



**SECTION E. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION F. Emission Restriction Summary.**

Source Id	Source Descriptor		
032	BOILER NO. 3 (BL-600)		
<b>Emission Limit</b>		<b>Pollutant</b>	
300.000	PPMV	At 3% O <sub>2</sub> .	CO
30.000	PPMV	At 3% O <sub>2</sub> when firing gas.	NOX
102	FLUOROSULFONIC ACID MFG		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.890	Tons/Yr		Hydrogen Fluoride
3.600	Tons/Yr		PM10
3.500	Tons/Yr		Sulfur Trioxide
110	PROCESS TANKS		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry standard conditions	SOX
111	TREAT TANKS		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry standard conditions	SOX
113	RAW MATERIAL STORAGE TANKS/RAIL CARS		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry standard conditions	SOX
114	BORIC ACID STORAGE & CONVEYING		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.040	gr/CF	dry standard conditions	PM10
116	CYLINDER PAINTING		
<b>Emission Limit</b>		<b>Pollutant</b>	
2.700	Tons/Yr	12-month rolling period	VOC
3.000	Lbs/Hr		VOC
15.000	Lbs/Day		VOC
C110	PROCESS TANK ABSORBER (T-301)		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry standard conditions	SOX
C111	TREAT TANK & BLOWDOWN ABSORBER (T-302)		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry standard conditions	SOX
C114	BORIC ACID TRANSPORT BAG FILTER		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.040	gr/CF	dry standard conditions	PM10



**SECTION F. Emission Restriction Summary.**

Source Id	Source Description		
C120	TWO STAGE SPRAY TOWER (T-303)		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry standard conditions	SOX
C121	DEMISTER (T-304)		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry standard conditions	SOX

**Site Emission Restriction Summary**

Emission Limit	Pollutant
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**SECTION G. Miscellaneous.**

#001. The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

- (a). Fugitive emissions from pumps, flanges, valves, open ended lines and compressors.
- (b). Maintenance activities on pumps, flanges, valves, open ended lines and compressor.
- (c). Refrigeration Units used for the process.
- (d). Cooling Tower.

#002. Operating Permit No. 23-313-013A serves as a basis for certain terms and conditions in this State Only Operating Permit.

#003. The throughputs and/or capacities listed in Sections A and D of this permit are used for descriptive purposes. These throughputs and/or capacities are not considered limitations or enforceable conditions by the Department.

The previously issued State Only Operating Permit NMOP 23-00056 has been amended to incorporate Plan Approval 23-0056. The new Authorization Number is 655042.

APS # 345634 AUTH # 808097

This operating permit has been renewed.

The information in section A is for informational purposes only.

The renewal of this operating permit includes the addition of a gas boiler, previously operating under General Permit. (GP1-23-302-146, for a 27.15 MMBTU/HR boiler).

The process at this facility uses Fluorosulfonic Acid and Boric Acid to produce Boron Trifluoride (BF<sub>3</sub>). BF<sub>3</sub> is not a regulated NSR pollutant per the definition of 25 Pa. Code 121.1, but Honeywell does have BF<sub>3</sub> emissions and Honeywell has developed emission estimates. The emission estimates are broken down into 3 groups of emissions, (Point Sources, Fugitive and Maintenance).

APS: 345634 AUTH: 993026 September 2013

This operating permit has been modified to address Source ID C114, Boric Acid Transport bag filters, condition No. 002 in Section D. The condition was revised to adjust the pressure drop across the boric acid silo bag filters to a range between 0.1 inches water to 35 inches water column. See review memo for details.

The Compliance Schedule in Section C has been removed as Honeywell has met the requirements.

APS: 345634 AUTH: 1040919

This permit has been renewed.

The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

- Cleaver Brooks boiler, model No. CBI-200-150-150, burning natural gas, with a rated heat capacity of 6.1 MBTU/HR, serial No. OL104699, year manufactured 2005. Honeywell received the boiler on August 27, 2014. As of issuance of this renewal permit the boiler has not been constructed, connected or operated.

APS: 345634 AUTH: 1282544

This Operating Permit has been renewed.



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

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